

The company's approach to energy efficiency and sustainability

The company has been committed to sustainable textile management since the beginning, acting not only out of self-interest but also conforming to the crucial market requirements of ecology and economy. The demand of consumers for eco-friendly methods in this industry has increasingly come to occupy centre stage in the last few years. In addition, the company positively achieved a certification to ISO 14001 and ISO 50001.

Steam system

The nominal capacity of the steam system, which consists of two boilers, is about 7 t/h. The nominal steam pressure is 16 bar, but currently the maximum needed pressure level is 10 bar. Furthermore, steam is used at a pressure level of 4 and 8 bar. The boilers use natural gas as fuel. The main consumers are the washing machines, the washing line and the drying line. On average, the system produces about 2–3 t of steam per hour. Most of the condensate returns from the consumers, but there are also consumers like the washing machines that use the steam directly.

Steam system problems identified

The steam system is in a good overall condition and several energy efficiency measures have already been implemented during the last years, for example, there was a fuel switch from oil to natural gas a few years ago.

Proposed energy saving measures, investments, and expected results

One very cost-effective project is the new insulation of the feeding water tank, which leads to calculated energy saving of 101 MWh per year. Another saving measure is to install an economiser to recover energy from the flue gas to preheat the fresh feed water. This project has calculated savings of 300 MWh per year.

Implemented proposed energy saving measures, investments and results achieved

The investment costs for the insulation are about 5,000 € and the payback period is just one to one and a half year. The economiser has estimated investment costs of 60.000 €, which results in a static payback period of about five years.

Achieved and/or expected non-energy benefits (NEBs) as result of implemented and/or proposed measures and investments involved

Both projects increase the overall efficiency of the steam system and lead to lower CO₂ emissions.

Involvement of internal stakeholders

The management of the company is highly interested in implementing measures to achieve cost-effective energy savings.



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Textile Management

80 employees

Total (Estimated) Investment
€ 65,000

Total (Estimated) Savings
400 MWh

Non-Energy Benefits

Reduction of natural gas demand

Lower CO₂ emission