

STEAM AUDIT – Denmark, Textile Management

FACTSHEET



Companies connection to energy efficiency

Midtvask has been working on energy and environment for many years. They have an environmental action plan that they call "a bit better and healthy than we were yesterday". The laundry process uses a lot of energy and detergents and the pressure from the environmentally friendly environment in this industry is increasingly helping to optimize the washing process and energy consumption. In addition, the company has obtained a certification to ISO 14001.

Steam system

The nominal capacity of the steam system, which consists of two boilers, is about 8.6 t/h and 4 t/h. The nominal steam pressure is 31 bar, but currently the maximum needed pressure level is 11-12 bar. The boilers use bio fuel. The main consumers are the washing machines, the washing line and the drying line. Most of the condensate returns from the consumers, but there are also consumers like the steam dryer 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 bio fuel a few years ago and they use the condensate to heat up the water for the washing machines.

Proposed energy saving measure(s), investments, and expected results (in figures)

Because the laundry is located in a protected buildings with limited space there is no room to mount a heat exchanger from the dryers on the roof of the building. There are over the time made several initiatives to utilize the steam optimally. As an example, condensate is used to heat the water in the washing machines.

Implemented proposed energy saving measure(s), investments and results achieved (in figures)

The hospital, where the laundry is next to, will in 2019 move and shut down. This means that the future of the laundry is unknown. It is not decided if the laundry can stay in the buildings. This means that there will be no investments in major changes in the coming years.

Achieved and/or expected Non Energy Benefits (NEBs) as result of implemented and/or proposed measures and investments involved

According to the description above there will be NEB to this project, but because the laundry use bio fuel the CO₂ emissions is reduced from 2,225,000 to 500,000 kg/y.

Involvement of internal stakeholders

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



Midtvask

www.midtvask.dk

8000 Aarhus C
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Textile Management

Laundry

Total (estimated) Investment

€ 0

Total (Estimated) Savings

€ 0 p/y

0 MWh/y

Non Energy Benefits

Lower CO₂ emission