



Brolli Textilservice GesmbH

The family-owned business was founded in 1922 and is currently being run by Helmut Brolli jun. (3rd generation). Based on its core values professionalism, years of experience and excellent customer satisfaction, Brolli offers full textile services to the hotel, catering, industry, trade and health care industries. The company processes around 100 tonnes of laundry and 30,000 clothing items daily at three locations in Graz. Two important values for the firm are the extra value added as well as a sustainable economy within the region. The latter is also underlined by the fact that Brolli was the first Styrian firm to be certified by the ISO 14001 and EN 16001 standards in 2011, alongside the existing ISO 9001 and ISO 13485 certificates.

Initial Situation

In 2008 and 2009, an attempt was made to improve the machines by implementing optimization measures and modifications. However, the planned figures were not confirmed. For this reason the "original state" was restored and the system newly built. A key focus was set on the acquisition and handling of data so that the technical lead would be able to recognize trends early enough and take preventive action. By the exchange and additional instalment of control valves and a water management system for the in-house well, electricity consumption was reduced while output simultaneously increased at the Kalvariengürtel site. Furthermore,

pressure losses were minimized and a software-assisted pump management system installed in order to reduce water consumption and energy demand. Before introduction of the measures, total gas consumption stood at 23.723 GWh, while electricity demand totalled 2.36 GWh in 2010.

Measures

The steam systems were optimized by means of heat exchangers at both locations. The generated heat is used for hot water heating and preheating of the feedwater tank, therefore the improved pre-heated regulation scheme (Steam) can be used optimally by the heat recovery process. The savings achieved

Sustainable and environmentally friendly for Styria

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Savings

3,030,000 kWh/a

Savings in %

12%

Year of Realisation

2011

Reduction of Water use up to 25%

Water and Pump Management system installed to reduce energy demand

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by this measure total around 160 kW per hour.

In the area of water management, pressure losses were minimized and a regulation procedure developed for pumps, optimizing the water balance. At the Kalvariengürtel site, this measure resulted in a 5% reduction in water usage and at the Wiener Straße site even 25%! As a result, this also means massive savings in electricity.

A compensation system for the main energy supply was installed, providing troubleshooting security and a longer life span of machines in the entire system. Through operating the machines with a predetermined set-value and this held by

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the compensation system, total and additional energy consumption are minimized, which would otherwise be required at standstill or maintenance of the machines.

Brolli also follows the motto "Doing the right things right" and makes every effort to record and analyse data as well as measured values. As a result of this survey, there were many deconstructions on the machines in order to capture and use the existing potential optimally.

An important point is to visualize energy optimization and environmental protection as a whole within the company and therefore process optimization stands in the spotlight at Brolli. This motto also stands for all investment decisions that the company has taken or will take. Brolli also strives to confront issues with innovative and sustainable solutions and has been doing so for many years. The goal is to not require any more energy or heat recovery with the process been optimized up to point where the right amount of energy is already being supplied in advance.

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