STEAM AUDIT – Austria, Recycling I
FACT SHEET

The company's approach to energy efficiency

The company is consistently working on self-imposed principles, such as sustainable acting with special attention to the environment. Furthermore, the development of new processes and services with an ecological focus are also main goals. The steam production and waste incineration being the core business, the company continuously optimizes these systems as various implemented measures in recent years show.

Steam system

The two steam generators have a nominal steam capacity of 25 t/h and are fuelled with waste or oil. The boilers and the entire facility have been specifically designed for the company. Steam is produced at a pressure level of 16 bar and a temperature level of 200 °C. When there is a low steam demand of the customers, the generated steam can be completely utilized and expanded by a two-stage turbine. The recorded data of the steam generators show an average load of 75% and illustrate that 49% of the produced steam is consumed for generating electricity. The condensate return rate is 50%; the temperature of the condensate is 80 °C.

Steam system problems identified

As the company has already been optimized to a high technical standard, it is challenging to identify further economically meaningful measures in the evaluated system. The total loss in the system and the distribution within the enterprise is less than 2%. The steadiness in the steam generation results in a good capacity utilization of the turbine, on average 50%, while maintaining a high security of supply for steam consumers. The availability of steam supply is over 99%, which almost corresponds to the availability of supply of the Austrian power grid.

Involvement of internal stakeholders

The main responsible person for steam within the company is Mr Christian Bacher. Mr Thomas Werner, the CEO of the company, is specialized in steam generation and, consequently, has a high knowledge of all relevant processes. From the beginning, the involved persons were highly motivated, so the collaboration was very productive throughout the whole project.

ABRG Asamer-Becker Recycling GmbH

www.abrg.at

Austria

Treatment and disposal of hazardous and non-hazardous waste

Steam and incineration of waste

40 employees

Total (Estimated) Investment

0 €

Total (Estimated) Savings

0 €/a

0 kWh/a

Non-Energy Benefits