

### Company's connection to energy efficiency

This company is a brewery founded in 19<sup>th</sup> century with an attached restaurant. With a total of 35 employees, the company produces approx. 11,000 hectolitres of beer and approximately 6,500 hectolitres of lemonade every year.

### Steam system

The generated steam from the steam boiler is given with 11 bar in the steam distributor. The condensate from the steam distributor as well as from the respective steam consumers flows back into the feedwater tank. In addition, there is an air-water heat exchanger in the boiler room on the ceiling for preheating the heating water.

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

- Oxygen control of burner could save about 5,7 MWh/a and 260 €/a, invest costs ca. 3.000 €
- High pressure condensate could save about 43,9 MWh/a and 2.000 €/a, invest costs need to be checked
- Isolation of valves, mountings could save about 17,6 MWh/a and 800 €/a, invest costs ca. 3.500 €
- Condensing heat exchanger could save about 39,5 MWh/a and 1.800 €/a, invest costs ca. 20.000 €
- Check of steam traps could save about 43,9 MWh/a and 2.000 €/a, invest costs ca. 3.000 €
- VSD Control of blower could save about 3,3 MWh/a and 626 €/a, invest costs ca.1.200 €

### Involvement of internal stakeholders

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

Germany

Brewery

Beer and Soft Drinks

35 employees

---

**Total (estimated) Investment**

**30.700 €**

**Total (Estimated) Savings**

**7.486 €/a**

**153,9 MWh/a**

**Non Energy Benefits**

Reduced Water consumption

Improved working safety