

Case study



BAELZ PRODUCT: Steam Terminal Luxese - Water Jet Pumps

INDUSTRY: Energy supply

COMPANY: Local energy supplier

COUNTRY: Germany, south-west region

Initial situation

A large energy supplier is offering waste steam to generate heating and hot water.

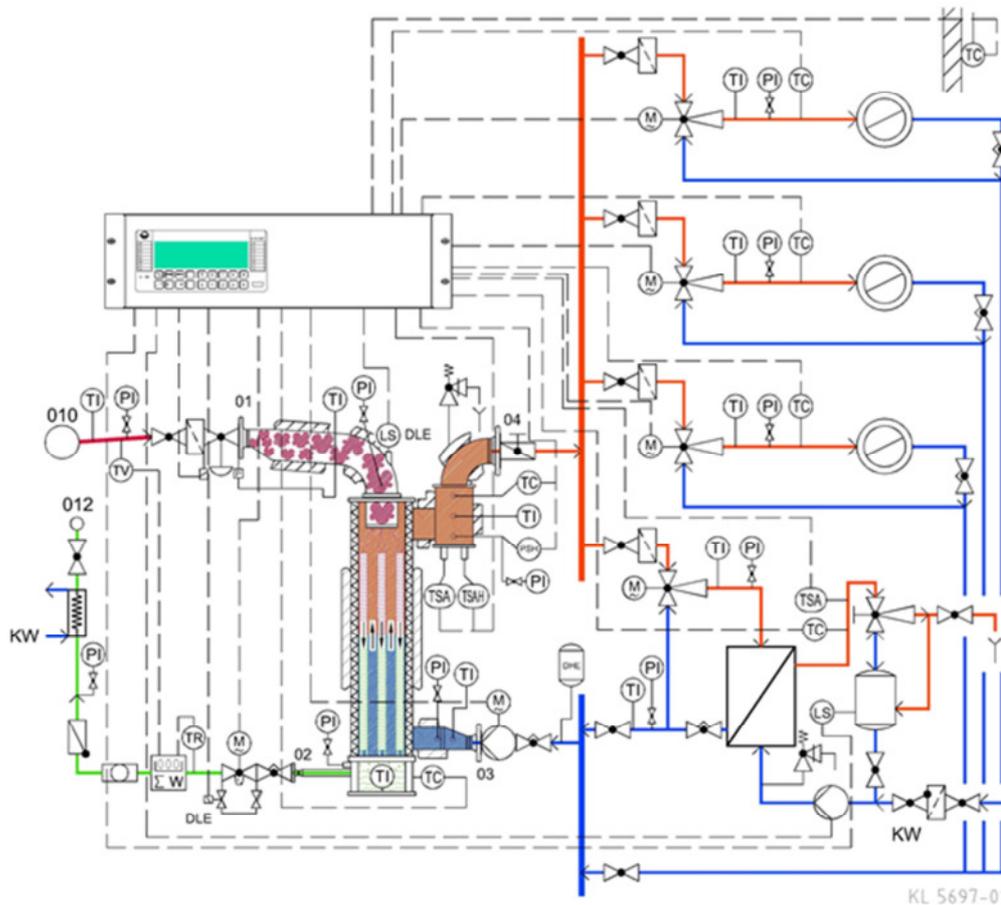
The plan was based around making maximum use of the steam energy to operate a downstream heat and water network.

A "Steam Terminal Luxese" steam transfer station was used

Jet pumps were used to ensure the energy-saving operation of the downstream heating plant.

High condensate temperatures also needed to be avoided so that the condensate system could be operated without sustaining damage.

Technical Modifications



CS_wasserstrahlpumpe_0001_en_VD_1801

CASE STUDY



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Savings and economic efficiency

The use of a static heat exchanger and condensate build-up control not only allowed the investment costs for the exchanger station to be reduced by around 15 - 18 %, but it also ensured the non-damaging and low-wear operation of the condensate system.



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Savings and economic efficiency

Energy can be saved on the secondary side through the use of jet pumps. By not requiring any circulating pumps and by using jet pumps to create a higher temperature spread, cost savings during ongoing operation of up to 30 % can be achieved compared to a conventional setup. The heating distributor from Baelz also guarantees a compact construction as well as fast and fault-free commissioning.



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General overview of the technology

The jet pumps from Baelz combine the functions of four individual components:

- They generate recirculation in the consumer circuit
- They adapt the circulating volume to the actual heat demands
- They control the temperature
- They equalize differential pressure fluctuations

Thanks to the dramatic saving in terms of circulating pumps, the systems run significantly more efficiently and therefore more economically.