



BOSCH
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Heating transition in Saarlouis

Reference Report Bosch Industrial

Bosch hot water boilers
ensure supply reliability

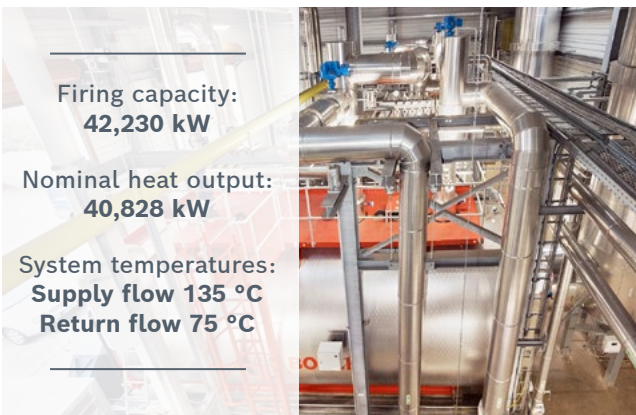
An important milestone in providing an eco-friendly supply of heat was reached by STEAG and Fernwärme-Verbund Saar (Saar district heating association). This included the use of two UT-M hot water boilers from Bosch, which act as a back-up and safeguard the supply at peak loads.

In Saarlouis, a town on the border between France and Germany, the heating transition is making further progress against climate change as the district heating supply will no longer involve coal. This shift will be enabled by a combination of waste heat sources, modernised CHP systems and the planned connection of a waste processing plant. Two new Bosch hot water boilers will assist with generating heat in a reliable and energy-efficient manner. The boilers are capable of supplying around 40 MW of heat, if necessary. In addition, its compact design enables rapid heating-up and the direct availability of heat.

The common goal of the project was to connect the hot water system to the network at the start of the heating period. „Having a timely delivery from Bosch Industrial Boilers was crucial for completing the system on-site within a short time. Everything had to

go very quickly so that subsequent trades could continue working and commissioning could take place as planned,“ says Markus Schirmer, the responsible Project Leader at AGO GmbH Energie + Anlagen. This was the company, based in Kulmbach in the German state of Bavaria, that was commissioned to implement the hot water boiler system project on-site. AGO also received the support of the Bosch team, who performed commissioning and will be available to the customer for service issues in the future.

Just in time for the winter season, AGO and Bosch handed over the system to STEAG New Energies GmbH, the operator of the heating plant. The Bosch boilers now act as a back-up and safeguard the district heating supply in Saarlouis. The heat generators are not only impressive thanks to their reliability, but also with respect to sustainability and energy



efficiency, offering efficiency levels of up to approx. 97%. In addition to the boilers' high basic efficiency, the integrated flue gas heat exchangers optimise energy utilisation by using waste heat to preheat the return water. Oxygen control sensors ensure an ideal fuel-to-air ratio, resulting in consistent combustion values. The duoblock burners used are integrated by Bosch ex works. With this type of burner, the fan can be flexibly positioned in a space-saving manner and connected to an air duct. Moreover, the installed speed control systems on the fan reduce noise and also lead to substantial energy savings.

The consumer of the heat produced by the heating plant is Fernwärme-Verbund Saar (Saar district heating association), which supplies heat to around 13,000 customers. The energy company is expecting its carbon footprint to be reduced substantially thanks to the new approach taken to its heating infrastructure. Within this, Bosch boilers are also making their contribution, offering high energy efficiency and reliability.

Project: Heating plant in the city of Saarlouis

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