



BOSCH
Invented for life

43 boilers – one project

Reference Report Bosch Industrial

District heating in Turkmenistan

In summer up to 50 °C in the shade, in winter temperatures below -20 °C: these are the kind of extremes you have to reckon on in the Karakum desert in Turkmenistan. It makes up about 90 per cent of the surface area of the Central Asian country. This desert region is located near to the border of Uzbekistan and is home to Turkmenabat, the second largest city in Turkmenistan. A large part of the city are provided with district heat by central heating plants. The existing systems were up to 50 years old and date back to the time when Turkmenistan was part of the Soviet Union. The boilers had a large potential to improve efficiency, reliability and safety.

The Turkmen government has seen the need of action and invested in replacing the old central heating plants. The main objective was to ensure a reliable heat supply while lowering operating costs and emissions. The city Turkmenabat has been chosen as the pilot project of the investment campaign. Bosch Thermotechnology was selected together with the company AYYD by the local authority to support the large-scale project. Result: by the end of the year a total of 43 Bosch heating boilers Unimat UT-L (under Buderus brand type S825) were installed in eleven boiler houses. They produce up to 193.6 MW heat highly efficient and reliable for the city's central heating plants.

The boilers in three-pass design are available in various sizes and enable a flexible operation with a high standard efficiency of up to 95 per cent. A project of these dimensions needs to be perfectly coordinated. From consulting and project planning under consideration of country-specific requirements to supervision of the installation – Bosch Thermotechnology accompanied the entire process. The compact boilers were manufactured in the Bosch factory in Bischofshofen (Austria) and equipped with safety devices, effective thermal insulation and low-emission natural gas burners in order to enable quick installation. After punctual delivery and installation,



One example of the previous heating units.

the AYYD service experts in cooperation with Bosch Thermotechnology service engineers commissioned and tested the heating boiler systems. Vitaliy Bulda, Vice President of Bosch Thermotechnology in the Baltic States and the CIS (except Russia) summarizes: “We have supported the Turkmen government to achieve their goals in two ways with our products. On the one hand, our products yield a huge reduction in domestic

natural gas consumption. As a result, the operational costs decrease and, at the same time, a greater volume of the country’s own raw materials resources is available for export. On the other hand, we ensure a very stable heat supply with our proven products. This is particularly important for the inhabitants of the city Turkmenabat.”

Before



After



The efficiency, reliability and safety of the boiler houses have changed fundamentally with the new heating boilers from Bosch Thermotechnology (here: Bosch brand Buderus)

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