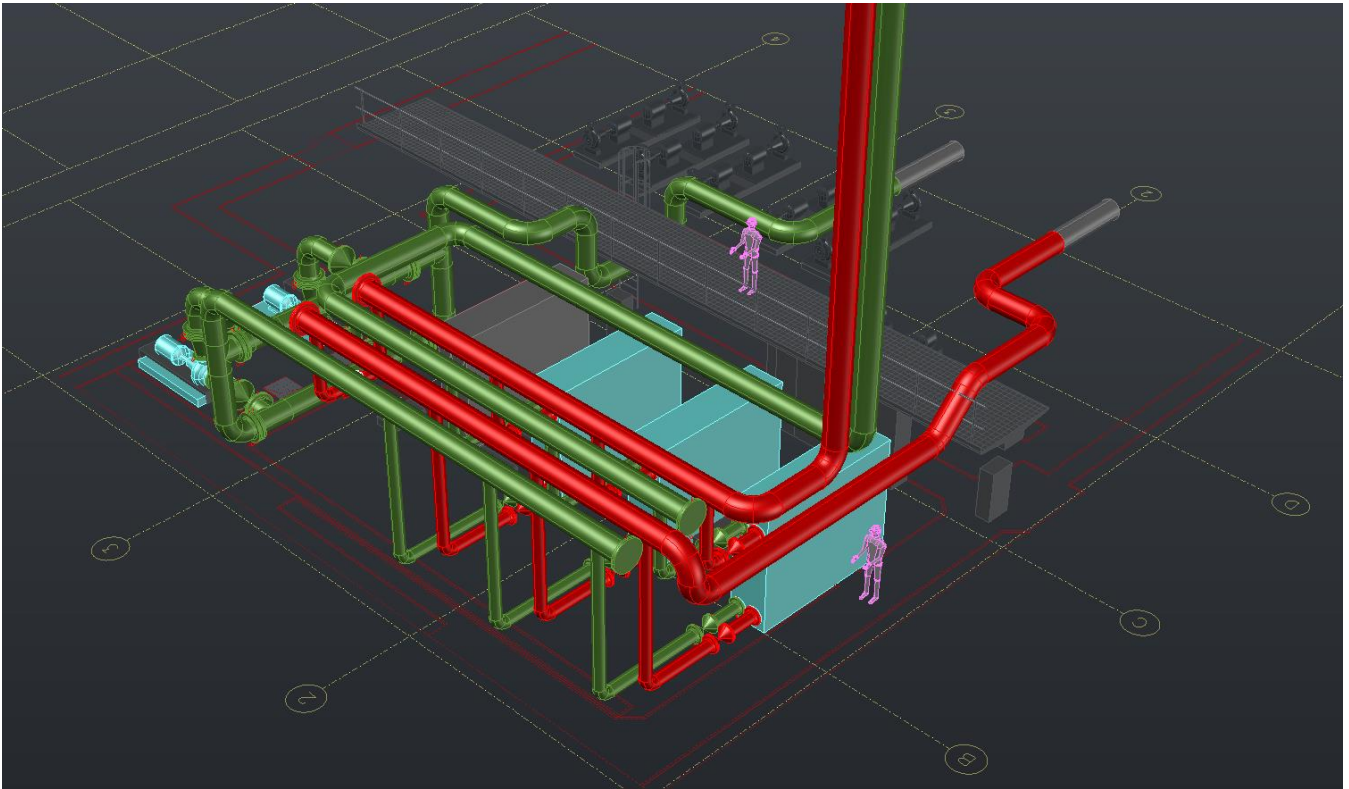


Client: wesernetz Bremen
Project: Heat transfer station Vahr
Services: Preliminary planning



General

A heat-transfer station is to be built at the site of Bremen Vahr. The aim is to take heat from the waste incineration plant/university and feed it into the “Ost” network through a new district-heating pipe. A heat transfer station is required to hydraulically decouple these systems.

The district-heating connecting pipe coming from the incineration plant/university, is also to be used in the opposite direction to take heat from the “Ost” network towards the incineration plant/university. For this, an appropriate pump/valve assembly was envisaged to reverse the direction of flow.

Approx. 130 MW_{th} to 170 MW_{th} can be transferred through the district-heating connecting pipe. The heat-transfer station was rated for 150 MW with provisions for further expansion.

A comparison was first made of all the feasible types and sizes for the heat transfer station, taking into

consideration the various alternatives for installation. The components for the heat-transfer station were to be installed in the existing building of the Vahr heating plant.

Three plate heat exchangers, each with a rated power of 50 MW_{th} have been envisaged along with a vacant position. The pump assembly with valves is also to be mounted at the 0.00m-level.

The proposed measures together with the calculated investment costs were summarized in a report.

Planning work

The planning work covered the preliminary planning.