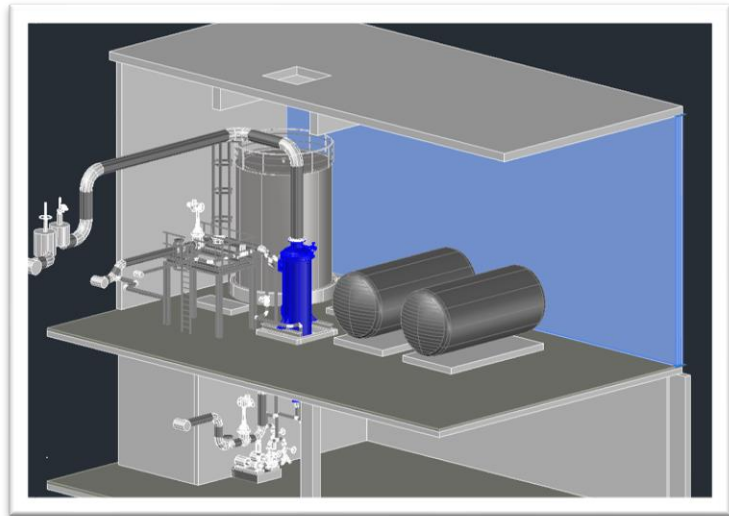


**Client: MVA Bielefeld-Herford**

**Project: Reducing station and district heat exchanger**

**Services: Preliminary planning, draft planning, tendering, contract award, site management**



## General

There are several reducing stations in use at the waste incineration plant MVA Bielefeld. The function of the turbine bypass station was performed by three separate steam conditioning stations. Two of these stations are to be replaced in view of their age. The risk analysis performed as part of the planning work resulted in the selection of a safety-relevant design for the new reducing station. The stringent noise requirements proved to be a challenge. The new reducing station should carry little noise into the exhaust steam pipe of the air-cooled condenser. To this end, a sonically optimized dump tube is to be used.

As part of the conversion, the existing district heat exchangers were extended by an exchanger with 50 MW. It also proved necessary to replace the existing demineralized water tank with a 60 m<sup>3</sup> tank.

## Planning work

The scope of services provided by T&N included the preliminary, draft and approval planning. Moreover, T&N also carried out implementation planning and planning for the pipework.

Tendering and contract awarding took place from the beginning of 2017.

## Implementation

The construction of the new reducing station and its commissioning was completed in the autumn of 2018. The new heat exchanger is to be installed and commissioned by the cold period in 2019.

## Partners

In addition to Tiede- und Niemann acting as the general planner, the company IBK was subcontracted for pipe-work planning.

## Client

The services were performed for the waste incineration plant MVA Bielefeld-Herford GmbH, Schelpmüser Weg 30, 33609 Bielefeld, Tel.: 0521 3398-0 over a period from 2017 until 2019.