

Client: Wandschneider + Gutjahr
Project: Retrofit of flue-gas cleaning system, KVA Stuttgart-Mühlhausen
Services: Preliminary planning, draft planning



General

The main sewage treatment plant in Stuttgart-Mühlhausen operates a two-line sewage sludge incineration plant. The older of the two lines is to be enhanced by 2025 to such an extent that it offers a real redundant solution for the other existing line. Sub-contracted by W+G, T&N dealt with the trade "flue-gas cleaning system."

Study and preliminary planning

As part of the preliminary planning, all components of the existing wet flue-gas cleaning system were examined in respect of their design data and state of repair. Five different options were then prepared and assessed to find an appropriate concept for refurbishment

The option deemed to be the best solution proved to be a hybrid process. This is a conditioned dry process with a downstream limestone scrubber.

Draft planning

For the draft planning, the preferred option was developed further.

In addition to the 3-D installation drawings, P&I diagrams were prepared including functional descriptions.

For the electrical systems, sensor and consumer lists as well as sensor layout drawings were drawn up.

For further construction planning, the loads of the components were determined and entered in load drawings.