

**Client: Wandschneider + Gutjahr****Project: Refit of the flue gas cleaning system for sewage sludge incineration plant in Ruhleben****Services: Implementation planning, tendering and contract awarding****General**

The sewage incineration plant at the Ruhleben sewage plant of Berliner Wasserbetriebe comprises three incineration lines. The flue gas cleaning system had to be refurbished here to allow a further 15 years of operation. Moreover, it had to be ensured that the system could cope with increased pollutant loads and greater throughputs of sewage sludge.

**Concept development**

As part of the renewal of the flue-gas cleaning system, plans were made to install new saturators that ensure a defined cooling of the flue gases prior to admission in the scrubber. This was to avoid deposits in the area of the scrubber inlet which in the past led to increased pressure loss, resulting in additional downtimes. The water used for the saturator is a partial amount of the scrubber suspension from which the particulate matter has been largely removed by a hydrocyclone station.

By using the external saturator, the separation capacity of the scrubber was also increased.

Moreover, the body of the scrubber was also radically refurbished, replacing and optimizing the fittings such as the nozzles and nozzle lance arrangement, the demister and agitators, including oxidation air supply

While the flue-gas cleaning system was being replaced, the chemical dosing station was also renewed.

**Contract awarding and implementation**

In addition to draft and implementation planning, the scope of services provided by T&N included the preparation of tender documents for the individual lots, assistance with contract awarding and support with implementation planning for the suppliers.

The measures were performed in individual stages from 2014 until 2016, with the support of T&N.