

**Client: Wandschneider + Gutjahr****Project: Refit of chemical dosing station for sewage sludge incineration plant Ruhleben****Services: Implementation planning, tendering and contract award****General**

The sewage incineration plant at the Ruhleben sewage plant of Berliner Wasserbetriebe comprises three incineration lines. While renewing the flue-gas cleaning systems which were refurbished for a further 15 years of operation, the chemical dosing station for wastewater treatment was also renewed.

The chemical dosing station is required to store and deliver the chemicals for treatment of the wastewater from the flue-gas scrubbers. The scrubbing water is treated with various chemicals so that any pollutants contained in the water, in particular heavy metals, can be converted into poorly soluble compounds and then precipitated by sedimentation or filtration.

Many of the components located in the chemical store showed signs of corrosion damage and were replaced, accordingly. To avoid any such damage in future, the ventilation concept was also refurbished.

**Scope of services provided by T&N**

The following services were provided by T&N:

- Baseline study
- Preparation of refurbishment concept
- Tendering and assistance with contract awarding

**Refurbishment/Optimization measures**

The following measures were carried out when refurbishing the plant:

- Renewal of dosing equipment for sodium hydroxide, polyelectrolytes, antifoam agents, TMT 15, iron (III) chloride
- Creation of a station for diluting and dosing hydrochloric acid
- Enhancement of ventilation system
- Renewal of emergency shower
- Renewal of pipework
- Renewal of tank trough collectors
- Renewal of flooring
- Re-painting of steel girders

The measures were implemented in 2015.