

Municipal wastewater treatment plant Baden-Baden•Sinzheim, Germany

Client: Stadtwerke Baden-Baden
2018 - 2023

Implementation of a fourth cleaning stage

The municipal wastewater treatment plant in
Baden-Baden•Sinzheim
Photo: City of Baden-Baden



Initial situation

It is the largest project that the Baden-Baden public utility has ever realized: The Baden-Baden•Sinzheim municipal wastewater treatment plant is to be extended by a new building.

A fourth purification stage will be housed in the new building. In the future, this facility will use granulated activated carbon to filter out trace elements such as hormones, pesticides and drug residues from wastewater. In addition to clean water, the wastewater treatment plant produces sustainable electricity and heat.

Capacity

**200 000
population
equivalents**

Daily purified wastewater

27 000 m³

Total construction costs

20,5 Mio €

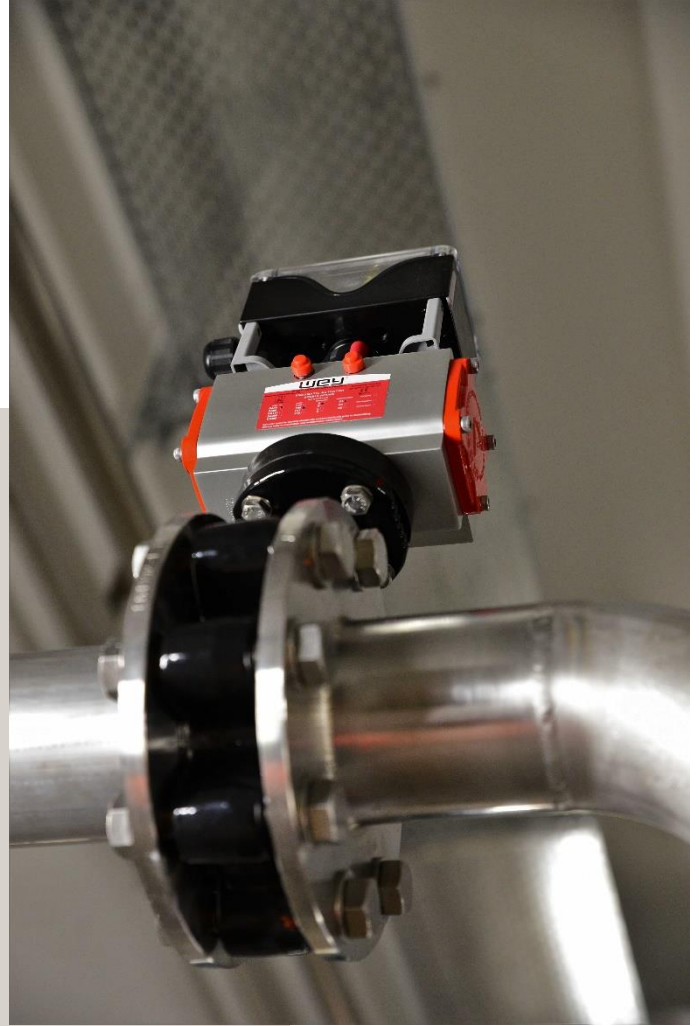
Pollutant reduction

80%

Special challenges

The wastewater treatment plant is located in the immediate vicinity of a water protection area. The highest possible leakage and safety requirements therefore apply to the valves used. All knife gate valves must have leakage rate A – the standard for Wey knife gate valves.

Wey TL20 butterfly valve in the compressed air supply of the new system



Approach

The new part of the wastewater treatment plant was to be built as ecologically as possible and with low CO₂ emissions.

The Sistag production facility in neighboring Switzerland, where all Wey knife gate valves are manufactured from the ground up, ensures short transport routes and high ecological standards. Thanks to the intensive and trusting cooperation with all parties involved, specific customer requirements could be taken into account and changes could be responded to quickly. All Wey valves have the required leakage rate A as standard. Every single valve that leaves the Sistag factory is subjected to a pressure test beforehand to guarantee absolute tightness.

Planning phase

Close cooperation with the planning office. The Sistag support team was on site several times to record specific system requirements.

Construction phase

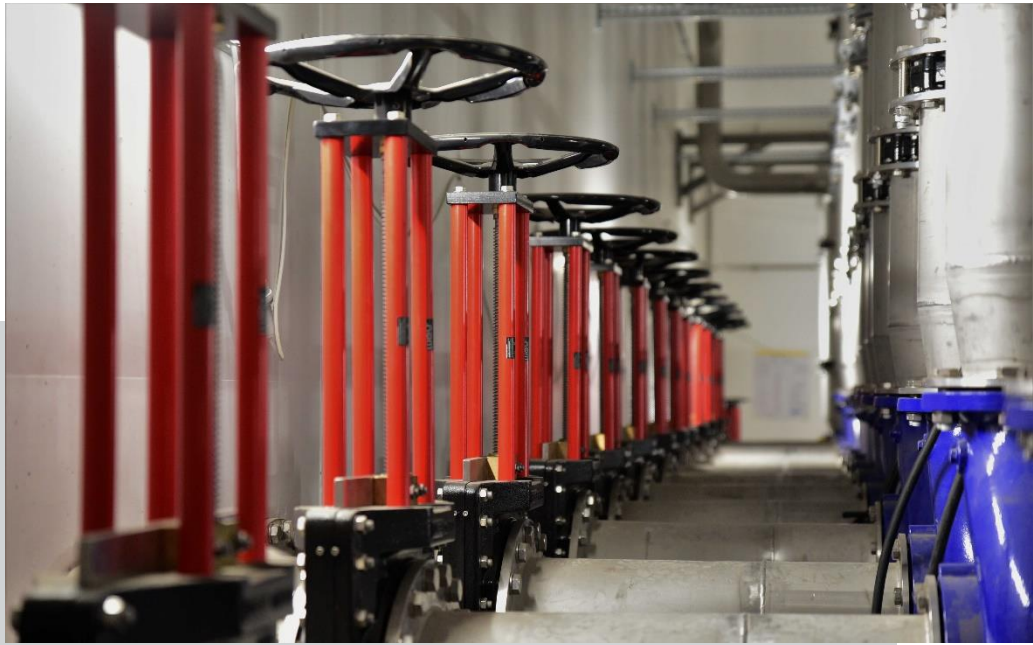
Regular coordination with the system manufacturer Gebrüder Peters Gebäudetechnik AG. Constant consultation with colleagues at the Swiss production plant.

Commissioning

Support for the Baden-Baden public utility during commissioning.



Wey knife gate valves MFA, installed on the inlet pipes for the activated carbon filter.



Category

Knife gate valves

Product series

VN, MF

Nominal size

DN 200 - 1200

Actuator

Manual, pneumatic

Material

Cast iron

Max. pressure

10 bar

Number of valves

62



Category

Butterfly valves

Product series

TL20

Nominal size

DN 50 - 80

Actuator

Manual, pneumatic

Material

Ductile iron

Max. pressure

16 bar

Number of valves

14

«Wey valves were chosen because of our high quality standards and our good experiences with Sistag.»

General Management of GKA Baden-Baden•Sinzheim

Comissioning
2023

Expected service life
30 years

Next steps

Once the new building is completed, the next step will be to renovate the two digestion towers and several kilometers of sewers.

The new building of the GKA Baden-Baden•Sinzheim was put into operation on schedule. The new facility is not only a showcase project for other companies in technical terms, but also in terms of its sustainable construction and its clear, well-thought-out design.



The Sistag support team in front of a MF DN 1200 knife gate valve, mounted on the system's discharge pipe

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discuss your
individual
application.
We show
solutions that
work.**

Sistag GmbH
Muggensturm (Germany)
Tel. +49 7222 7879 790
info@sistag.de

Headquarters
Sistag AG
Eschenbach (Switzerland)
Tel. +41 41 449 99 44
info@sistag.ch