



WASSMANNSDORF SEWAGE TREATMENT PLANT

CHRONICLE

1927

Commissioning of a primary sedimentation plant (Em-scher tank) due to the overload of the sewage farms

1989

Modernisation of the sewage treatment plant, commissioning of a first expansion stage

1991

Start of construction work on two new expansion stages for the mechanical and biological sewage treatment, with biological phosphate elimination in combination with nitrification and denitrification

1995

Commissioning of the first expansion stage for biological sewage treatment and one block cogeneration plant

1997

Commissioning of a new mechanical cleaning stage and the new plant building with central control room

1998

Commissioning of a further biological treatment stage. Treatment of 230,000 m³ of sewage a day possible in dry weather. Shutdown of the Marienfelde sewage treatment plant, transfer of the sewage to Waßmannsdorf. Commissioning of the sludge pretreatment and sludge dewatering/drying.

PROCESS ENGINEERING

Mechanical and biological sewage treatment, biological phosphate elimination in combination with nitrification and denitrification. The digestion of the sewage sludge

takes place in digestion tanks. The digested sludge, de-watered and dried in drum dryers, is recycled in line with closed substance cycle waste management.

TECHNICAL DATA

Treatment capacity

230,000 m³ /day in dry weather

Mechanical treatment:

Four circular screens, four grit chambers, ten rectangular tanks with a total useful volume of 22,000 m³ for primary sedimentation.

Biological treatment:

Eight aeration tanks with a fine-bubble surface aeration and a total useful volume of 203,600 m³.

16 round tanks with a total useful volume of 81,300 m³ for secondary sedimentation.

Sludge treatment:

Two flotation tanks, three centrifuges for the excess sludge, six digestions tanks each with 8,000 m³ capacity for sludge digestion, five centrifuges and four drying lines.

Biogas recycling:

Three gas purification systems, three gasholders with a total storage volume of 11,000 m³, one gas compressor station, one block cogeneration plant with four gas motors.

The biogas is used for sludge heating, electrical energy generation, building heating, for the hot water supply in the sewage treatment plant and for the district heat generation.



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