



## **TEGEL WATERWORKS**

*Tegel waterworks is one of three main centres. It operates in cooperation with Stolpe, Spandau and Kladow waterworks.*

### **CHRONICLE**

**1877**

Commissioning of the waterworks on the Tegeler See

**1883**

Conversion of the waterworks for surface water drawing

**1901/03**

Conversion of the waterworks for groundwater operation

**1969**

Commissioning of the process control centre in the modernised control room

**2004**

Commissioning of the process control centre in the modernised control room

### **TECHNICAL DATA**

**Max. capacity:**

260,000 m<sup>3</sup>/day

**Water winning:**

116 vertical wells, 30 to 60 m deep, with underwater motor pumps. Delivery of the pumps 50 to 150 m<sup>3</sup> per hour. One horizontal filter well, 16 m deep, with two underwater motor pumps, delivery each 250 m<sup>3</sup> per hour.

**Water treatment:**

Two atomisation towers each with 17 m diameter aeration of the raw water, one high-speed filter plant with 20 open double filters, filter surface area 1,740 m<sup>2</sup>, filtration rate 6 m per hour.

**Water delivery:**

Eight pumps driven by electric motors with delivery rates between 1,250 and 4,000 m<sup>3</sup> per hour and a pressure of 5.8 to 6.2 bar. Two emergency power generators each with an output of 1600 kVA ensure the operation of the waterworks in the event of failure of the public supply grid.

**Groundwater enrichment:**

In three tanks with a total surface area of 30,069 m<sup>2</sup> pre-cleaned surface water from the Tegeler See is percolated in micro-screen plants.



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