OZONIA

Rostock Water Works

Case Study

With Ozonia –
for drinking water

Rostock Water Works

Rostock Water Works' historic water tower. In the foreground are the buildings housing the pre and mainozonation equipment.

Ozone is the ideal agent for treating and disinfecting drinking water. The advantages of ozone and the improvement in the quality of the water after ozonation are evident at the Rostock Drinking Water Works following its modernisation. By specifying the new Advanced Technology from Ozonia, the Rostock Water Supply Company became the first user in Germany of high-tech ozone generation equipment for drinking water treatment. They benefit from low oxygen and energy consumption.

After successful trials, the plant began continuous operation on 25th September 1995.

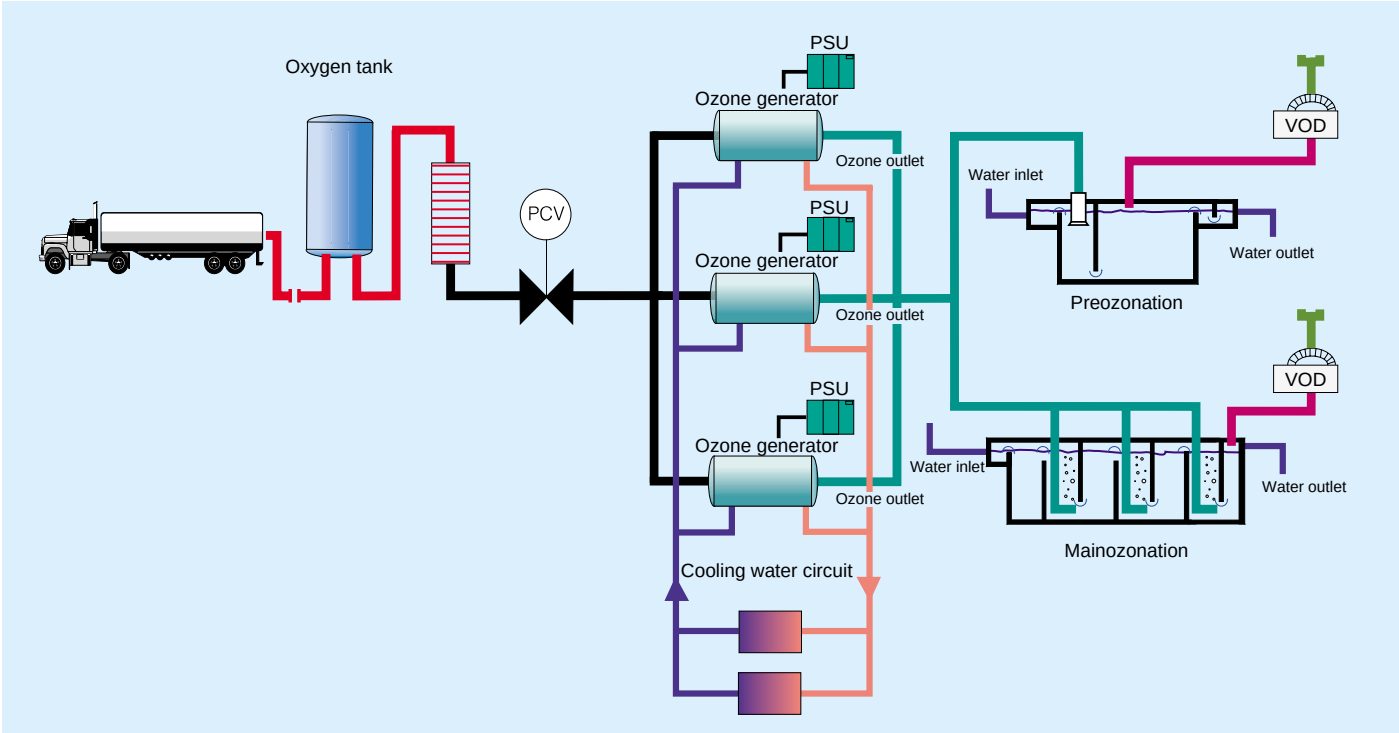
Surface Water Treatment in the Rostock Water Works

The drinking water for the town of Rostock is supplied from the River Warnow - a surface water contaminated with humic matter.

The decisive goals for the use of ozone were:

- Optimisation of flocculation and filtration, especially with respect to the removal of algae
- Increased DOC reduction in the biologically operating activated carbon filters
- Elimination of undesirable tastes and odours
- Disinfection
- Minimisation of trihalomethane production
- Avoidance of the transportation of potentially dangerous chemicals

Process schema



Ozone generator

Plant Statistics

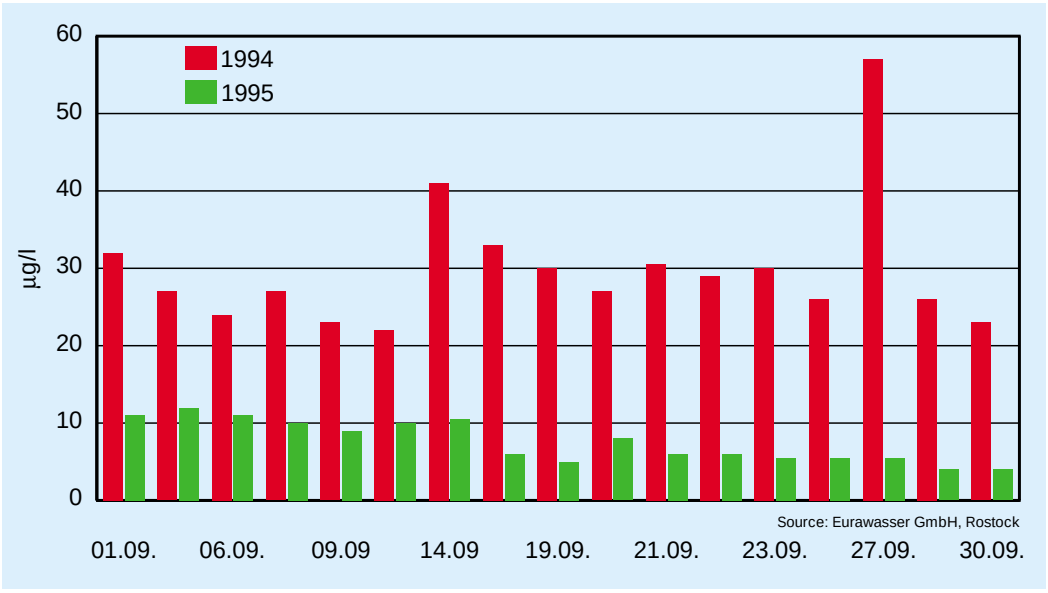
Plant capacity:	90 000 m^3/d (nominal)
Ozone production:	26 kg/h (3 x 8.7 kg/h)
Ozone concentration:	10 wt% (148 g/m^3 STP)
Ozone contacting:	
Preozonation:	radial diffusers
Mainozonation:	porous diffusers
Vent ozone destruction:	thermal system with heat recovery.

Ozonia's Scope of Supply

- Ozone generation equipment
- Pre and mainozonation contacting systems
- Process automation
- Vent ozone destruction
- Piping, fittings, measurement and control equipment
- Refrigeration plant for chilling the cooling water

Process control and power supply unit

Comparison of trihalomethane concentrations before and after installation of the Ozonia plant



Site
Rostock, Germany

Operator
Eurawasser GmbH, Germany

Commissioning
August 1995

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