

Optimising operations

Pond treatment plant Moltzow, Waren a.d. Müritz, Germany

In operation for over 15 years



Stadtwerke Waren
17192 Waren (Müritz)

Operation

1 OLOID Type 400 in pond 2 with
1.700 m³

Period

Since 2000
Revised in 2015

Success

Compliance with discharge limits

Duckweed growth is interrupted

The pond treatment plant Moltzow near Waren (Müritz) was put into operation in 1996. Since 2000, an OLOID Type 400 has been continuously used for operation optimization. The machine was revised in 2015.

Goal of the OLOID operation

Optimisation of operation: compliance with discharge limits with simultaneous energy saving and prevention of duckweed growth

Description of the plant

Municipal treatment plant, extension size: 600 PE (population equivalent)

Process design: rake system, 2 aerated ponds and one tertiary treatment pond

Aeration in pond 1 (1.400 m³): 2 jet aerators in continuous operation (24 h/d) with each 2.2 kW

Aeration in pond 2 (1.700 m³): 1 OLOID Type 400

Tertiary treatment pond with approx. 600 m³



Results

- For over 15 years continuous OLOID operation
- The discharge limits are maintained despite the saving of an aerator in pond 2
- Oxygen input by the OLOID
- This causes mixing and movement of the water and avoids the growth of duckweed