

Challenge

Along with an efficient, load-dependent and flexible control system, another specific requirement was the smooth and simple operation of the controller software.

- Straightforward, logical and easy to operate
- Clear and simple setting parameters
- Release of PLC storage capacity

Solution

A comprehensive optimisation plan has been developed for the improvement of the purification capacity and energy efficiency of the Offenbach a. d. Queich Sewage Treatment Plant. In May 2022 the Aqualogic® controller system was installed. The intermittent aeration is now operated on the basis of the respective concentration of ammonium and nitrate. The process water dosing module was also put into operation.

Technical Details

Passavant® Aqualogic®

(energy efficient control via ammonium nitrate)

Process water module

Aeration pulses during the denitrification phase for mixing of the activated sludge

Benefits

- Efficient and reliable control of the biological purification process based on Fuzzy Logic
- Flexible - can be adapted to local conditions
- Various straightforward setting options are possible directly from the Aqualogic® controller
- Considerably simpler and easier to operate in comparison with the previously used controller software
- Space reclamation on the PLC and release of automation technology

“In contrast to the previous controller software, Aqualogic® is simple, straightforward and easy to operate.”

*Mr Wolfgang Busch, Operations Manager, Sewage Treatment Plants,
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