

BioCon: Reduce your operations costs cleverly

for sludge, energy, additives and wastewater fees

Situation

Some wastewater treatment plants have excellent discharge values but suffer from high costs of operations.

Aim: Reduction of operating costs (i.e. energy, sludge disposal, additives) while complying with the limit values.

Solution

In such a situation a targeted control system such as BioCon can help:

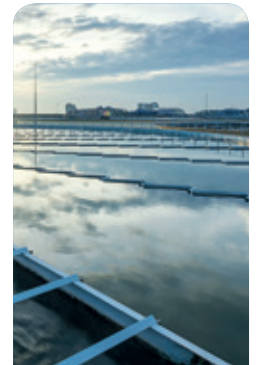
- ≡ It controls the biological cleaning process according to demand and load.
- ≡ It stabilizes the discharge values on a lower level.
- ≡ It improves the efficiency of the entire cleaning process.
- ≡ The aeration, sludge and phosphor elimination modules provide an optimized dosage of oxygen, flocculants and returning sludge.

Result

Operational costs were reduced in all sectors:

	Pre year	Year of implementation		Following year	
Waste water [m ³]	616,617	657,209	+ 6.5 %	673,874	+ 9.2 %
Discharge value NH ₄ -N [mg/l]	8.0	6.4	- 25 %	1.5	- 80 %
Discharge value NO ₃ -N [mg/l]	11.6	10.4	- 10 %	4.7	- 59 %
Energy consumption [kWh]	330,805	254,800	- 23 %	246,961	- 25 %
Surplus sludge [m ³]	16,970	11,450	- 32 %	10,758	- 36 %
Limewater use [t]	210	0	- 100 %	0	- 100 %

- ≡ Lowered discharge values
- ≡ Minimized energy consumption
- ≡ Lowered sludge production
- ≡ Less flocculants like limewater



»BioCon gives us the possibility to work cost-effectively when budgets are limited.«