

CASE STUDY

wastewater treatment plants

CLIENT'S NEED

Odor abatement (sulphuric acid)

TECHNOLOGY EMPLOYED

Biofilter and washing tower

POLLUTANT ABATEMENT

Odours \geq 98% H₂S (sulphuric acid) - \geq 99%

STRENGTHS

Energy efficiency Solid structure

APPLICATION

Abatement plants for odours coming from wastewater treatment

The treatment of industrial and civil wastewater is an industrial process fundamental for the safeguard of the environment and of the people living nearby. The wastewater must undergo a purification process, both as a function of recycling and to respect environmental safeguard parameters. Some processes or commonly used machineries may give rise to consistent malodorous emissions.

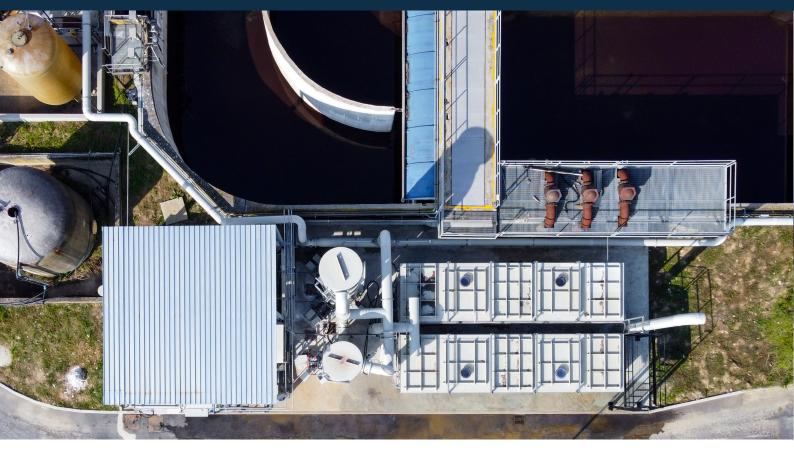


PURIFICATION

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CONTEXT

In the majority of wastewater treatment plants, substances responsible for bad smells are ammonia (NH₃), hydrogen sulphide (H₂S) and Mercaptans (RSH). Said substances are perceptible to human's sense of smell even in extremely low concentrations.

CHALLENGES

Limited spaces, the high performances requested, the presence of other plants to interact with, the interferences and the necessity to maintain the purification plant working 24/24h are just a few of the challenges that BMB plants must face. In this case, it was necessary to obtain an almost total removal efficiency, combined to an easy and e plant management that was easy and economically convenient.

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SOLUTION

The polluted air stream passes through **two wet washing towers (scrubber)** capable to reduce the acid compounds (hydrogen sulphide H₂S); odours are subsequently removed by a **biofiltering unit**. BMB solutions' high level of automatization guarantees:

- Remote monitoring of the plant with signals for the maintenance thresholds and alarm system
- Total control of process parameters with possibility to implement customized instruction and operations based on customer needs
- Detection of pollutant agents with possibility to modify the plant through exclusion of one or more treatment stages, to optimize management cost

RESULTS

Odours reduction: ≥ 98%

- reduction
- H₂S (hydrogen sulphide) reduction ≥ 99%
- Management and investment cost









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