

CASE STUDY industrial production

CLIENT'S NEED

Abatement of odours and NH₃ emissions deriving from production waste

TECHNOLOGY EMPLOYED

Washing Towers (Scrubber) and closed biofilter modules

POLLUTANT ABATEMENT

Odour removal efficiency ≥ **98%** NH₃ abatement (ammonia) ≥ **99%**

STRENGTHS

Energy efficiency and Reduction of management costs

APPLICATION

Odour abatement plants for food industries

Some production scraps typical of the industrial sector may give rise to odour and disposal problems, whose solution is often highly costly, both economically and in terms of time and resources. Ejections, malodorous waste and undesired by-products are just a few examples of odour sources whose associated problems get daily resolved in BMB.



PURIFICATION

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CONTEXT

In the **food sector** there are multiple odour sources, yet animal ejections are undoubtedly among the most complex and tedious to manage. As a matter of fact, **livestock ejections** are the cause of odours and represent a serious environmental issue, as the **regulatory framework** suggests.

The high concentration of **ammonia NH**₃ and the **persistent and unpleasant olfactory trace** represented the main problematic BMB took charge of.

CHALLENGES

- Guarantee a high odour and NH₃ abatement system and obtain a successful aspiration of production rooms
- Create a remote controllable plant capable to work with the simultaneous functioning of multiple production machines
- Create an easy access to ordinary and extraordinary maintenance
- In general, create a plant easy to install, manage and maintain.

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SOLUTION

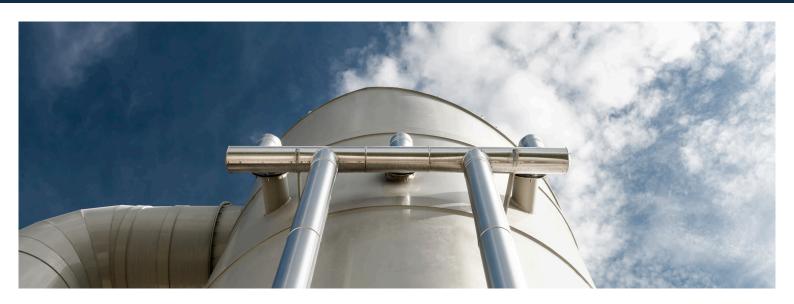
Engineering, design, and construction of a **pollutant abatement plant to be locally installed** according to the following scheme: the air full of odours and pollutants is sent to a **wet scrubber washing** tower that reduces the ammonia excess rate. Inside the scrubber, the **polluted air gets washed by a stream of an aqueous solution**, added with specific reagents allowing the **reaction of ammonia neutralisation**. In this phase, the choice of the reagent and the monitoring of process parameters are fundamental for the plant's good performances. Downstream the wet scrubber, a **battery of biofiltering modules** guarantees odour removal before the **chimney evacuation**

RESULTS

- Odour removal ≥ 98%
- Ammonia abatement ≥ 99%
- Environmental authorization from regional entity
- Remotely controlled plant

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