

CLIENT'S NEED

Containment of odour and pollutants coming from leachate & odorous liquid tank storage

TECHNOLOGY EMPLOYED

Photocatalytic filtration

POLLUTANT ABATEMENT

Odour removal efficiency $\geq 98\%$

STRENGTHS

High abatement performance with no usage of electrical power.
High energy saving and no environmental impact.
No necessity in connecting storage tank vents through ducts.

APPLICATIONS

Photocatalytic filtering of pollutants coming from vents in industrial production.

BMB Purification photocatalytic filters can be applied to all cases in which odours and pollutants coming **from vents in industrial production** processes need to be treated. For instance, in case of vents installed on storage tanks for **high odorous substances** (leachates, chemical products, sewage ecc.).



PURIFICATION

BMB Technologies & Services S.r.L.

Via Cappelletta 90, 27040 BORGO PRIOLO (PV) Tel: +39 0383 872776 email: info@bmbtech.it



CONTEXT

Leachate from solid waste landfills is collected in **dedicated tanks** before being sent for disposal.

Storage might even last several days; hence, the liquid **causing odour release** from the vents. It is then necessary to treat the vent's outlet air to **reduce both odours and pollutants** (ammonia, hydrogen sulphide, mercaptans, etc..).

CHALLENGES

- **Reduce odours** and dangerous pollutants.
- Obtain the highest abatement of pollutants possible with **minimum energy consumption**.
- Employ technologies with **low environmental footprint**.
- **Avoid expensive ducting** for vent connection.

CASE STUDY

bulk liquid storage



SOLUTION

Each storage tank is equipped with its dedicated photocatalytic filter activated **by sunlight UV radiation**.

Filters are installed directly on the tank's vent and allow both air outbreathing (tank loading) and **inbreathing** (tank emptying), working as relief and vacuum breaker valves.

RESULTS

- Odour reduction > 99%

PURIFICATION



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