



Expert in **odours** treatment

John Cockerill Europe Environnement makes available the most performing technologies in order to **control odorous pollutions** from processes of **several applications**, such as:



**Public Wastewater
Treatment plants**



**Industrial Wastewater
Treatment plants**



Agrifood



**Sorting center Wastes
recycling**



Composting plants



Paper mill

In both heavy and light chemicals, the production and transformation processes call on extensive wide range of chemical elements; resulting in a wide variety of polluting gaseous emissions: our job is to define and set up the optimal treatment solution in line with your requirements and those of the regulations in force.

Thanks to its know-how and technological skills John Cockerill Europe Environnement helps to:

- Protect on site operators
- Control your gaseous releases
- Preserve your working environment: buildings and equipment
- Enhance your image among local residents and clients

Audit **Olfactometry** Design solutions de traitement Installation Commissioning Maintenance & After-sales servicing



Recurring challenge in **Waste Water Treatment Plant**

Smelly gaseous emanations coming from pumping stations, storm-water basins, settling ponds, storage areas, sludge dehydration and drying areas

- Sulphurous compounds: hydrogen sulphide (H₂S), mercaptans (R-SH),
- Nitrogen compounds: ammonia (NH₃), amines (R-NH₂)...
- VOC: aldehydes, ketones, fatty acids (R-COOH)

Example of standard solution



Case of a WWTP at Macau – China (located in the middle of downtown): expansion of the odour treatment capabilities

- Airflow: 35 000 m³/h
- Pollutants: H₂S, C₈H₈, NH₃, CS₂, DMS, DMDS, CH₄S, CH₃-SH

Our solution

- Mineral biotrickling filter
- Radial demister & Electrical cabinet
- 2 activated carbon filters
- 2 high pressure centrifugal fans equipped with muffler and acoustic chamber
- Monitoring system for H₂S: inflow & outflow

Performance > 99%

Recurring challenge in **Domestic Wastes Treatment Plans**

- Smelly discharges from sorting areas, storage areas, and from the drying/fermentation process
- Pollutants: sulphure, nitrogen, chlorine, VOC and alcohols

Example of standard solution



Case of a composting units of household and green organic sludge (France)

- Airflow: 19 000 m³/h
- Pollutants: NH₃, COV, H₂S

Our solution

- Packing scrubber to treat NH₃ with acid injection control system
- Organic biofilter
- Piping network of fermentation hall
- Centrifugal fans for air intakes and exhausts



Performance > 80%

John Cockerill Europe Environnement

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