

Smart Monitoring for **Air quality**

Real-time environmental data
management for

Landfills & sewage treatment plants



Air quality has become a critical risk for landfills and wastewater treatment plants.

Operations at landfills and wastewater treatment plants generate continuous emissions of gases, odors, particles, and potentially hazardous compounds that directly impact the environment, workers, and nearby communities.

Without **continuous** monitoring, companies face



Regulatory sanctions



Complaints about smells



Conflicts with communities



Reputational loss



Health risks



Lack of technical evidence

Without monitoring at facilities, emissions become a risk to the outside world.

Landfills generate gases such as methane (**CH₄**), hydrogen sulfide (**H₂S**), and volatile organic compounds (**VOCs**), while wastewater treatment plants emit gases from the wastewater treatment process. These pollutants can easily disperse outside the facilities, causing odors, health risks, and social conflicts. Without continuous monitoring, it is impossible to identify the source, anticipate events, or justify the operation to third parties.



What needs to be kept under control



Gas emissions (H₂S, CH₄, NH₃, VOCs and others)



Odors and volatile compounds



Airborne particles in operational areas



Perimeter monitoring



Origin of pollutants with pollution roses

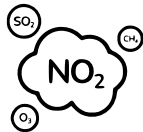


Real-time changes in air quality

Advanced real-time environmental monitoring

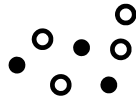
monitoring becomes an integral part of operational control in landfills and wastewater treatment plants through an intelligent system capable of measuring atmospheric pollutants in real time at every stage of the process. This continuous monitoring enables risk anticipation, operational optimization, and access to objective, traceable data for decision-making and regulatory compliance.

What does the system measure?



Gases

H₂S · CH₄ · NH₃ · VOC · CO₂
and more, enabling control of hazardous emissions and odors.



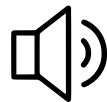
Particles

PM1 · PM2.5 · PM10
enabling dust and secondary emission control.



Environmental variables

Temperature, humidity, and pressure, helping optimize operations based on weather conditions.



Environmental noise

Objective data to address complaints and ensure compliance with noise regulations.



The pollution rose allows you to identify the origin of polluting episodes and odors.

Benefits for the operation

✓ Regulatory control

Availability of reliable data that allows for data evaluation and facilitates audits and inspections.

✓ Proactive management

Early detection of pollution episodes and immediate reaction capacity.

✓ Operational optimization

Environmental information that allows for improved planning and management of processes and operations

✓ Conflict prevention

Objective data to respond to complaints from communities and neighbors.

✓ Transparency

Improved communication with authorities, promoters and stakeholders.



Flexible implementation for each project

Bettair adapts to landfills and wastewater treatment plants through different implementation models, allowing the deployment of monitoring networks according to operational, regulatory or environmental impact needs.

Applications



Controlled landfills



Waste treatment plants



Wastewater treatment plants



Biogas plants



Industrial facilities with water treatment

Easier for your business



Sensor rental

Continuous environmental monitoring without initial investment.

Recommended



360° Service

An all-in-one solution, where you don't have to worry about anything other than receiving the data.

Includes:

- Teams
- Installation
- Data platform
- Maintenance
- Environmental analysis



Equipment Purchase

Featured projects in the sector



Environmental monitoring in Baena



Landfill control in Piera



Vertedero ecopark, Paulínia, Brazil

Compliance



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