Environmental Monitoring of Lipor's Organic Recovery Plant

The entire process designed in the Organic Recovery Plan responds to two key principles: on one hand, excellent product quality. On the other, the integral treatment of odors, reducing their impact outside the Plant.
A brief summary follows on the installed environmental protection systems.

Environmental Monitoring

In the Composting Plant the air flow to deodorize is 410,000Nm³ /h. The treatment is carried out through a washing and biofiltration process (Biofilter total area: 3,130m²). The proposed biofiltration system gives the deodorization system a high flexibility, because, as well as obtaining high levels of contaminated air treatment, it ensures high capacity for regulation and intervention, which makes the system highly reliable. This integral treatment system for the air circulating inside the buildings ensures that no unpleasant odors emanate outside. Three vertical ducts with axial fans exhaust the treated gases, ensuring fast and efficient dispersion of the treated air.

The effluents generated during the process are entirely reused, after previous treatment, to avoid discharging them into the drainage network in place for the remaining effluents.

Various environmental protection systems ensure that noise and vibrations are minimized.
The equipment and facilities are entirely automated with advanced technological systems, which are responsible for the control and optimization of all the parameters influencing the composting process, as well as the environmental conditions within the facility.

Another aspect worth mentioning is the thorough architectural and landscaping integration achieved in the internal and external surroundings of the LIPOR area, thanks to different sized buildings and different types of roofs. Large landscaped areas, a water mirror and the careful choice of construction materials guarantee a high quality for the project.