

SUEZ Environment

An odor monitoring solution
adapted to the different needs of the group

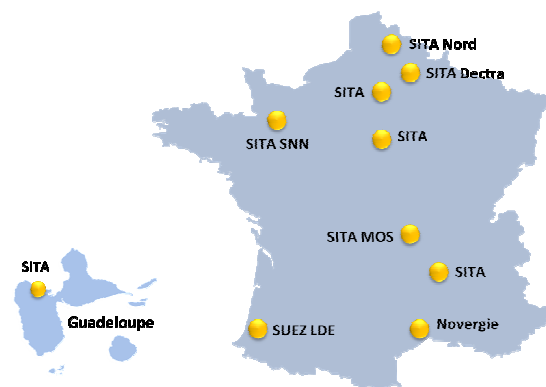


Suez Environment

- International reference in water and waste management
- N.O.S.E. programme « *No Odor for Suez Environment* » launched as part of its sustainable development policy, by CIRSEE, research centre for Suez Environment

Challenges

- To rank odor sources
- To monitor odor emissions in real time
- To implement an alert system
- To anticipate nuisance odors
- To promote communication with local residents and communities



Examples of equipped sites

Solution

Continuous measurement solution for odors and gaseous pollutants:

- Implementation on a pilot site in 2005: landfill site in the Oise region (France)
- Progressive deployment on other sites: composting plants, landfill sites, biogas plant
- Configuration tailored to each site: electronic noses, wireless communication system, weather stations, emission dispersion modeling software, control of deodorization facilities



Electronic nose
and weather station

Results

- **Centralized results, remotely accessible and easily interpreted**
 - ⇒ Quantification of odors (European odor unit, EN 13725)
 - ⇒ Measurement of target gases: NH_3 , H_2S or mercaptans, VOC
 - ⇒ Alerts when threshold exceeded
- **Odor sources targeted to anticipate and minimize emissions**
 - ⇒ Site odor maps via the network of analyzers
 - ⇒ Historical odor emissions for each installation
- **Optimized odor treatment**
 - ⇒ Monitoring treatment variations and potential odorant sources
 - ⇒ Cost reductions when the odor treatment installation is coupled with the analyzer
- **Easier communication with local residents**