

## **Visit of Professor Avraam Karagiannidis to the Toulon Waste-to-Energy plant**

*Toulon-France, December 11, 2009*

The Toulon Waste-to-Energy (WTE) plant was built in 1984 and retrofitted in 1993. The facility tour was guided by the manager of the plant Mr. J.-F. Fogacci, General Director of SITTOMAT, who proudly mentioned that the Toulon plant was the only one in France with a continuous measurement system for dioxins (2<sup>nd</sup> photo below). Some WTE facility features:

- Capacity: 300000 t/year.
- Grate type: Inclined moving grate (Martin).
- Facility manufacturer: CNIM.
- APC system: Semi-dry scrubber (CaO injection), followed by bag filters and SNCR for de-NO<sub>x</sub>.
- There are 2 electricity generators (12 and 9 MWe correspondingly).
- Some heat is also being sold to a local (small) district heating network. More 'heat' clients could be served.
- Bottom ash is being given to a private company nearby, where it is matured (pH-adjustment) and then utilized in road construction.
- Fly ash is being taken out and disposed in a hazardous waste landfill (the only one in southern France).
- SNCR (via urea injection) is being performed for deNO<sub>x</sub>.

The facility is operated by the local association of municipal authorities (SITTOMAT, <http://www.sittomat.fr>) which also organizes recycling in the greater Toulon area.

The Toulon WTE facility is being used also as an argument by its operating public authority (SITTOMAT) also as an argument and a motivation to the citizens to promote prevention, reuse and recycling of municipal solid wastes!

All recycling and waste collection infrastructure applied in the Greater Toulon area is demonstrated around the WTE site (photos below).

*This short site-visit report was compiled in Thessaloniki, Greece, on December 22, 2009 and is accompanied by 2 pages with 19 facility and site photos.*

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