

66 SIAULIAI - LITHUANIA

Year	2014
Client	UAB NEG RECYCLING / UAB VERSINA
Operator	UAB NEG RECYCLING / UAB VERSINA
System description	Sorting and bio-stabilization
Waste processed	Mixed MSW (Municipal Solid Waste)
Plant capacity	50,000 t/year



SRATC (Siauliai Regional Waste Management Centre) will use this MBT (Mechanical Biological Treatment) facility for the recovery of the waste generated in the Siauliai region. The project is co-financed by the European Union.



The facility includes two substantially independent processes:

- Sorting of mixed waste for the separation of the organic fraction, flat material (2D) and rolling materials (3D);
- Composting of the organic fraction.

A bag opener provided with a large receiving hopper is used for metering the waste to a ballistic separator, which separates the above-mentioned three fractions simultaneously.

The 2D and 3D fractions are collected in roll-off containers, which are automatically filled by two swiveling and reversible conveyors.

It is planned to further process these two fractions off-site for recovering recyclable material (paper, plastics and non-ferrous metals).

A magnetic separator is installed cross-line over the conveyor of the 3D fraction for separating magnetic ferrous metals (empty steel cans), which are collected in a self-damping hopper.

The undersized fraction (fines) sorted by the ballistic separator is processed in 7 composting tunnels provided with an odor control system.

In each tunnel is fitted with a fan that supplies the process air to the tunnel-aerated floor. In order to have uniform conditions for the composting process, the air supplied by the fan is a mixture of fresh air and recirculated air.

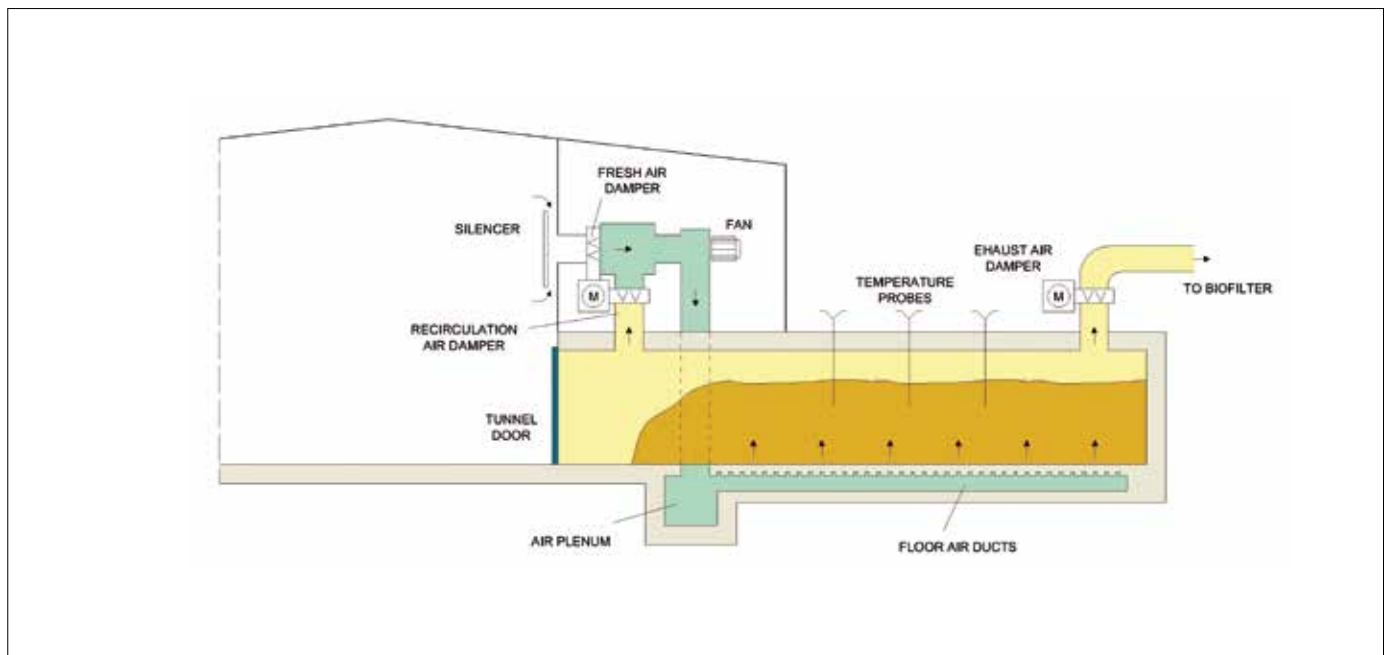
The fresh air for the tunnels is taken from the adjacent material-handling hall and the air exhausted from the tunnels is treated in a centralized biofilter. A variable speed fan is installed upstream of the biofilter.

The biological process is automated by a SCADA system and operates on a 24/7 basis.

The biological process occurring in the tunnels has a duration of 21 days and is followed by maturation.



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