

## ECONOMIC VIABILITY OF COMMERCIAL COMPOSTING OF ORGANIC WASTES FROM MARKET BY PASSIVE AERATION

*Olena Belyaeva*

*Donetsk National Technical University, Donetsk, Ukraine*

*Vila Martínez, Martín Alvaro*

*Donetsk National Technical University, Donetsk, Ukraine*

Organic wastes from markets are very rich in a variety of nutrients, but Municipality from Government is usually faced with the problem of contamination, pathogens and the disposal that generally cause pollution that perturbs habitats and contributes to climate change affecting whole ecosystems.

Composting is offered as a method for a very efficient and environmental safe means for disposal of a large volume of waste market through a technology that is economically and environmentally sustainable: Passive Aeration Windrow System(PAWS) afford excellent pathogen containment. When a compost pile is constructed properly there is no odor of wastes, a good indications of this is that scavenging animals did not disturb the piles.

The total Volume of finished compost is about 40% less than the mass present at the beginning of the process but contains greater measurable units of nitrogen per unit weight.

The Commercial Composting of wastes by this technique requires low capital and operational costs and encourage waste reduction, improve the local ambience and ecosystem integration, create employment and enhance the environmental sustainability.