

Project Coordinator



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Utilising Pay As You Throw Systems and Autonomous Composting Units for Biowastes Management in Touristic Areas

Project Partners



Municipality of Probistip, FYR.O.M.



Municipality of Yermasoyia, CYPRUS



Technological Educational Institute of Crete -
Educational and Research Committee, GREECE



University "Goce Delcev", FYR.O.M.

www.biowaste-balkanmed.eu



BIOWASTE

"Utilising Pay As You Throw Systems and Autonomous Composting Units for Biowastes Management in Touristic Areas"

Municipality of Katerini

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and National Funds of the participating countries

The project

BIOWASTE project is a solid wastes source separation scheme, aiming mostly in the hospitality industry, as well as, small and decentralized communities, which organic wastes are in its core, with their onsite treatment to play an important and key role. It is implemented in the framework of Interreg Balkan-Mediterranean Programme. Three municipalities and two academic institutions are participating in the project. In the municipalities the operating demonstration equipment will be installed, whilst the academic partners will support scientifically the actions.

The project has duration of **24 months**.

Total Eligible Budget: 1.338.255,00 €

EU Contribution (85%): 1.137.516,75 €

National Contribution (15%): 200.738,25 €

The budget of **Municipality of Katerini** reaches 407.044,00 €.

BIOWASTE promotes the transfer and application test of innovative technologies (PAYT and ACUs), aiming to enhance managing efficiency in solid wastes related issues, such as source separation schemes and treating systems emphasizing in organic wastes.

The **Pay-As-You-Through (PAYT)** system uses weighing equipment in the wastes collection process, with recognition chips. It allows direct correlation of each wastes producer with the amounts that produces, irrelevant if these are recyclable (glass, paper, plastic, metals) or mixed wastes, and through this process the respective charging is allowed.

An **Automated Composting Unit (ACU)** is used for the organic wastes. These are collected separately and are introduced in ACUs and composted on site, reducing the collection and transportation cost, the central unit treatment cost (if such a unit exists) and allowing the production of a high quality usable product.

The purpose

Through **BIOWASTE**, each Municipality will develop new management and separation systems at the source of organic waste, make it more efficient by limiting the fuel it consumes to collect and transport waste and reduce the overall carbon footprint associated with them.

Municipality benefits:

1. Relevant certificate for organic waste management,
2. Operators' training for Source Separation Systems,
3. Special equipment's supply (e.g. bins with identification systems),
4. Monitoring the ACU's operation for one year.

The environmental dimension

In the framework of the **BIOWASTE** project, each municipality will install an Autonomous Composting Unit (ACU) at the sites of a hotel or a group of hotels or hospitality units to receive the bio-waste produced directly without the need to collect them. ACUs are small closed integrated composting units, with zeroing of effluent and expanding liquids.



Moreover each municipality will develop a detailed Pay as You throw (PAYT) system and will provide the appropriate equipment for the implementation of the PAYT system (weighing units for waste collection trucks, bins with identification systems).



BIOWASTE is a project that contributes directly to:

- a) Raise the environmental consciousness of the society and make citizens to well informed partners in the waste management system,
- b) Reduce the overall carbon foot print of the wastes management through the improvement of the purity of the collected wastes and the reduction of wastes lead to landfills,
- c) Increase the amount of recovered recyclable materials from municipal solid waste, so their implementation should increase values for the rate of recyclable materials.
- d) Less waste and more recycling mean that fewer natural resources need to be extracted.