Integrated management of bio-waste in Greece – The case study of Athens

Summary for the technical report for selection and planning of separate collection method for the case study areas
EXECUTIVE SUMMARY

The “Report on the bio-waste Separate Collection Method” has been prepared in the framework of the co-funded European project Life-Environment “Integrated Management of biowaste in Greece – The case study of Athens” with the Acronym “Athens-Biowaste”, which aims at establishing a separate biowaste collection scheme in the Municipalities of Athens and Kifissia and producing high quality compost. The objective of the report is to present the methodology for the planning of the separate collection system in the two Municipalities.

The two participating Municipalities belong to the Region of Attika where EDSNA is the regional competent waste management authority. The Municipality of Athens is the largest city in Greece with a population of 664,046 inhabitants, covering an area of 38.96 km². Its population density is approximately 168,30 inh/ha. The Municipality of Kifissia is located NE of Athens and has a population of 70,600 inhabitants. It was constituted under Kallikratis plan (Law 3852/2010) by the former Municipalities of Kifissia, N. Erythraia and Ekali. It covers an area of 35.1 km² and has a population density 20,25 inh/ha.

The separate collection of bio-waste will be implemented in selected areas of Athens and Kifissia, covering a population over 3,000 inhabitants in each city. The areas selected for the implementation are:

In Athens: Kypriadou, Gazi
In Kifissia: Kato Kifissia, Nea Kifissia, Ekali, Kastri

During the next stages of the project and after the results of the separate collection have been evaluated the collection methodology will be updated in order to create a comprehensive guide for the separate collection of bio-waste for all Municipalities in Greece.

Taking into account that the new law on waste (L. 4042/2012) sets specific targets for separate collection of biowaste and there is not such a scheme already established in Greece, it is obvious that these areas will be the reference point for any new collection system being planned within the country and must be representative and exemplary.

More specifically, this report is divided in three parts:

Part A: During the first phase, the main characteristics of the separate collection for each pilot collection area were determined. Based on the previous Actions of the project a door to door collection will be implemented in Kifissia and a road container system in Athens.

Part B: During this phase, the number and capacity of the collection bins was estimated based on the number of the participating households. The number of households was extracted through processing of data provided by the Municipalities and the Public Power Corporation. In addition the number of restaurants and similar establishments which will participate in the system was determined. According to the final results 1,743 households will participate in the Municipality of Kifissia and 2,076 in the Municipality of Athens. The number of restaurants will be around 70.

Part C: The third and final phase included market research for available types of collection bins, biodegradable bags and fleet management systems. As a result the technical specifications of the collection equipment were drafted. The specification resulted after consulting with equipment providers and all affected parties, such as Municipal Sanitary Departments.
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