SET UP, MONITORING AND EVALUATION OF BIOWASTE SOURCE SEPARATION SCHEME IN ATHENS AND KIFISSIA MUNICIPALITIES, GREECE

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Setting up the collection system

Basic planning steps

- Selection of the participating areas in the two Municipalities
- Estimation of the total households
- Selection of the collection system for each area (site visits within the two Municipalities, meetings with the waste collection departments)
- Selection of equipment – specifications (bins, biodegradable bags)
Setting up the system
Participating Residential Areas
Setting up the collection system

Standard household equipment

- Participation on a voluntarily basis

- > 40% of the households in each area received a bio bin and biodegradable bags
Setting up the collection system

Door to door collection

- Municipality of Kifissia
Setting up the collection system

Road container collection

- Municipality of Athens
Setting up the collection system

- Additional external bins 40-360 Lt for the door to door collection system (depending on the number of households per building)

- Road container system with 660 Lt bins

- Road containers were placed next to the existing packaging recycling and refuse bins
Setting up the collection system

Communication – Promotional tools

- Logo
- Info line
- Website
- Leaflet
- Facebook page
Setting up the collection system
Bin distribution – Initial roll out

- Notification of the households via letter regarding the distribution date
- Door to door communication
- Delivery of bio-bins and bags, instruction leaflet
Biowaste collection

- Collection frequency 2-3 times/week
- 80% of the participating households are satisfied with the collection frequency
Monitoring Results

- 45% of the households that received a bio bin participated in the collection system one year after the initial roll out

- Average capture was 4.00 kg/per participating household
Monitoring Results
Material quality

Athens

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<th>Date</th>
<th>Biowaste</th>
<th>Impurities</th>
<th>Plastic bags</th>
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Kifissia

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- Biowaste capture rate of around 80 kg/cap

- Organics represent 44.3% in Municipal Solid Waste

- With a daily production of 1.1 kg/d*cap → 45% biowaste diversion per participant in the system

- In Germany in 2007 average capture rate was 60 kg/cap
Guide on the implementation, monitoring and evaluation of biowaste source separation schemes
THANK YOU FOR YOUR ATTENTION

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