

Enabling high-quality recycling of bio-waste through innovative waste separation technologies

Separating mixed waste is a main challenge for recycling. The SEPARATE project features an innovative technology that enables the efficient separation of Municipal Solid Waste (MSW), separately collected bio-waste and mono-streams into a very clean organic fraction and non-organic rest fraction.

Bio-waste from separate collection and MSW can be valorised twice: through capture and use of the biogas emanating from anaerobic digestion and through the preparation of the organic matter into high-quality compost and fertiliser. However, despite the great potential for more bio-waste recycling, the recycling rates of bio-waste fall behind the steadily growing rates of material recycling. Today, the majority of the 88 million tonnes of bio-waste that Europe produces each year is still lost through landfilling (40%) and incineration (20%).

SEPARATE waste systems offer an innovative technology with a high separation efficiency of 98% that allows the optimal use of the organic matter in anaerobic digestion and improves digester performance

In 2013, the technology developer db technologies (Netherlands) teamed up with the project partners Greenovate! (Belgium), Entsorgungs-Gesellschaft Westmünsterland mbH (Germany) and Opportunity Peterborough (UK) to support the market uptake of the separation technologies.

SEPARATE carries out on-the-spot tests of different waste streams and analyses the quality and characteristics of the waste streams that have been separated with the new technology. The results of the analysis are certified by renowned institutes and laboratories to demonstrate the exact composition of the waste streams.



“Efficient separation of bio-waste is an enabler for high-quality recycling of organic material that is perfectly suitable for anaerobic digestion and fertiliser production.”

- Karl Dirkes
db technologies BV

Useful links:

<http://www.separate-wastesystems.eu/>

For more information about the project contact:

Astrid Severin

Partner, Greenovate! sprl

E-mail: astrid.severin@greenovate.eu

