

Expected results

80% savings in energy generation costs in comparison with a bio-digestion plant operating independently

15% savings in energy generation costs in comparison with a pyrolysis plant operating independently

65% - 80% reduction of the environmental impact associated with landfill disposal of non-recyclable fraction proceeding from waste treatment plants

100% valorisation of the digestate generated in the anaerobic process as a slow-release fertiliser (struvite)

95%-98% efficiency in the recovery of nitrogen and phosphorus from the digestate

100% valorisation of sub-products generated during pyrolysis of non-recyclable wastes as carbon pellets, syngas and second generation bio-fuels



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a Giant step in the
Sustainable waste
management



LIFE+ European Program



Objectives

The pace of life in today's society has led to an increase in the consumption of resources, particularly those with a short lifecycle. This in turn has resulted in an exponential increase in the quantity of waste going to landfill.

On the other hand, intensified livestock farming and industrial activity have meant an increase in different waste streams, which represents a serious environmental problem if not managed appropriately.

The REVAWASTE project (LIFE12 ENV/ES/000727) aims to provide a simultaneous solution to these two problems through the application of a new waste management strategy based on the technological development and practical implementation of the "Mixed Plant" concept.

The ultimate aim of this model is to reduce costs associated with waste treatment processes, thereby optimising waste management, not only from the environmental perspective, but also from the financial and social point of view.



This Project is co-financed by the European Commission through the LIFE + program



“Demonstration of an integral and sustainable system for multi-waste recycling and valorisation”



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REVAWASTE project states the technological development of the “**Mixed Plant**” concept, proposing the treatment and valorisation of a broad spectrum of waste streams (non-recyclable fraction proceeding from waste treatment plants and industrial, together with biomass, livestock and agro-food wastes) in an integrated plant.

