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LIFE 11 ENV/ES/000601

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Food WasteLife



FOOD WASTE
TREATMENT
PROJECT



Integrated process for a sustainable and
cost effective food waste treatment

LIFE 11 ENV/ES/000601

GENERAL INFORMATION

TITLE: Integrated process for a sustainable and cost effective food waste treatment

ACRONYM: FOOD WASTE TREATMENT

DURATION: 36 months (01/09/12-31/08/15)

COORDINATOR: Biogas Fuel Cell, S.A. (BFC)

PARTNERS: Spanish Food and Drinks Industry Federation (FIAB), Imabe Iberica, S.A. (IMABE), Packaging, Transport and Logistics Technological Center (ITENE)

Food Waste Treatment is a collaborative project funded by the European Commission within the LIFE + programme, which aims to enhance environmental position of Europe and support innovative solutions that protect the environment and promote a sustainable development.

INTRODUCTION

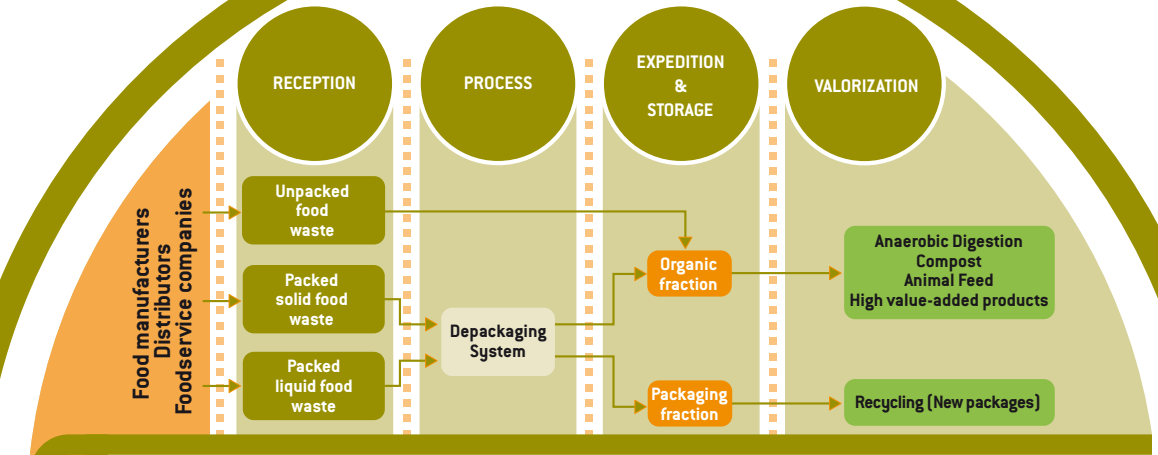
The search for an **efficient management model** that **minimizes the serious environmental and economic impact** associated with the generation of food waste has currently become a major concern of the European Union.

According to estimates by the European Commission, the annual generation of food waste in the countries of the EU-27 currently exceeds 89 million tons annually. The environmental impact is equivalent to the emission of 170 million tons of CO₂. Forecasts indicate that without adequate measures, these amounts will be increased by 40% in 2020.

MAIN OBJECTIVE

Through the development of "Food Waste Treatment" project, a **solution is proposed to allow the management and independent treatment of the organic and packaging fractions contained in the food waste**. Therefore **more advantageous valorization processes** will be enabled and the environmental and economic impact associated to the food waste management will be minimized. The project will focus on three main groups responsible for 60% of food waste generated in Europe: food manufacturers, foodservice companies and the distributors.

The following figure shows the project scheme:



SPECIFIC OBJECTIVES

- Contribute to the **reduction of CO₂ emissions**.
- Develop a new prototype that allows the **separation of food waste** produced in two fractions: **organic and packaging fractions**.
- Develop an **efficient model** that minimizes energy and water consumption through the integration of innovative equipment and technologies.
- Enable the **valorization and recycling of recovered** fractions avoiding its landfill disposal.
- Demonstrate the **technical and economic feasibility** of the proposed system.
- Demonstrate the **social, economic and environmental benefits** of these sustainable waste management systems.

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