

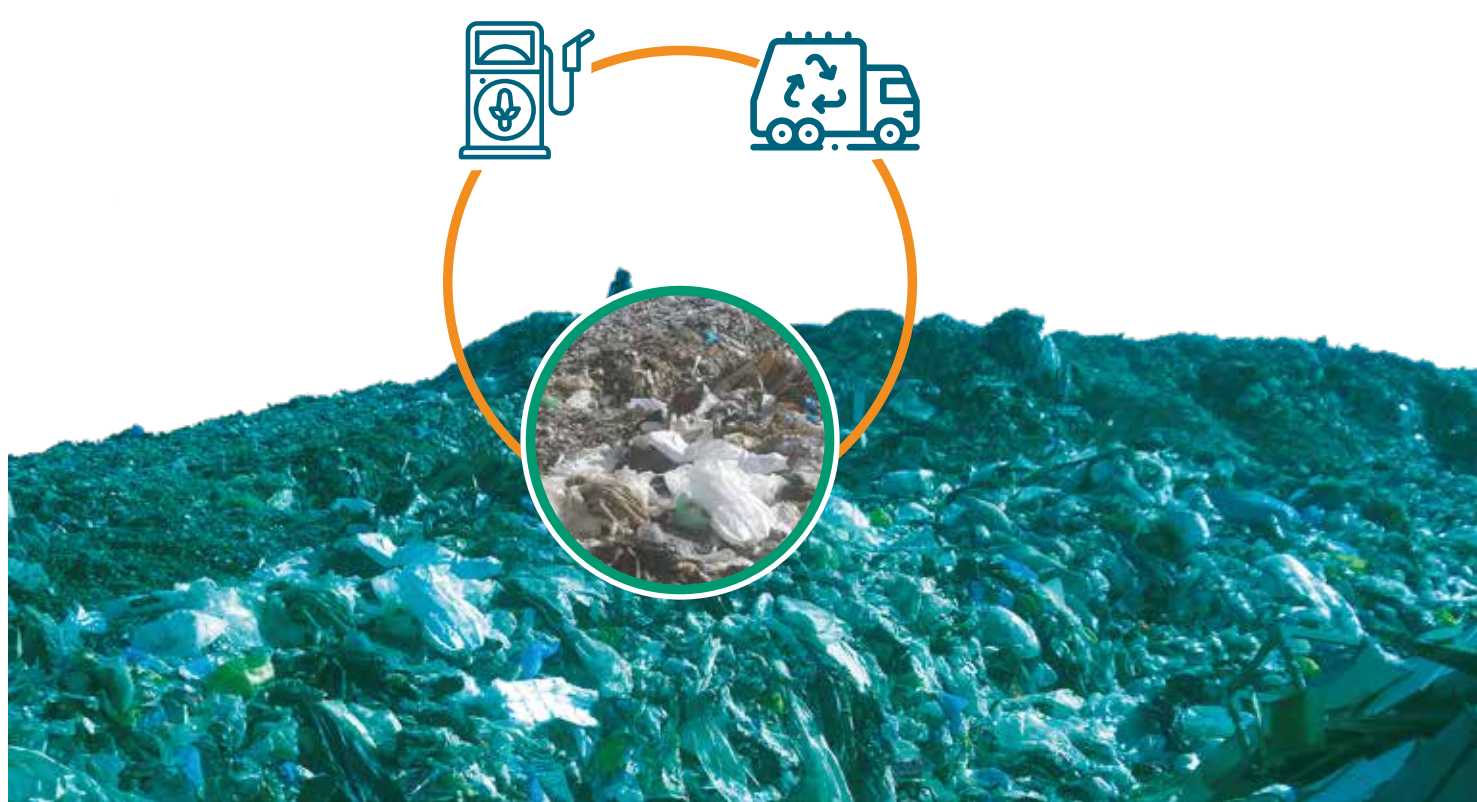
Reuse of urban waste to use as sustainable fuel in transport

ABOUT THE PROJECT

The aim of the project is to demonstrate the technical performance of a cost-effective solution for obtaining landfill biomethane for use in transport. The project will be developed in Granada.

The obtained biomethane, around 1,584,000 m³/year, will be used as fuel in a waste transport IVECO truck and a light vehicle, both owned by FCC. The Project will last four years and, once this period ends, it will be replicated in other FCC landfills in Europe.

The LIFE Landfill Biofuel Project will be a demonstration of how renewable gas (or biomethane) generated from waste can be the solution for two of the main problems currently existing in the European Union: transport decarbonization and improvement of air quality.



WHAT IS BIOMETHANE?

Biomethane is a clean fuel obtained from biogas. Biogas is produced by the process of anaerobic digestion of organic matter such as organic waste, manure, sewage, agricultural waste, etc. To generate biomethane, the biogas is cleaned in a process called upgrading. The result is a carbon neutral fuel.

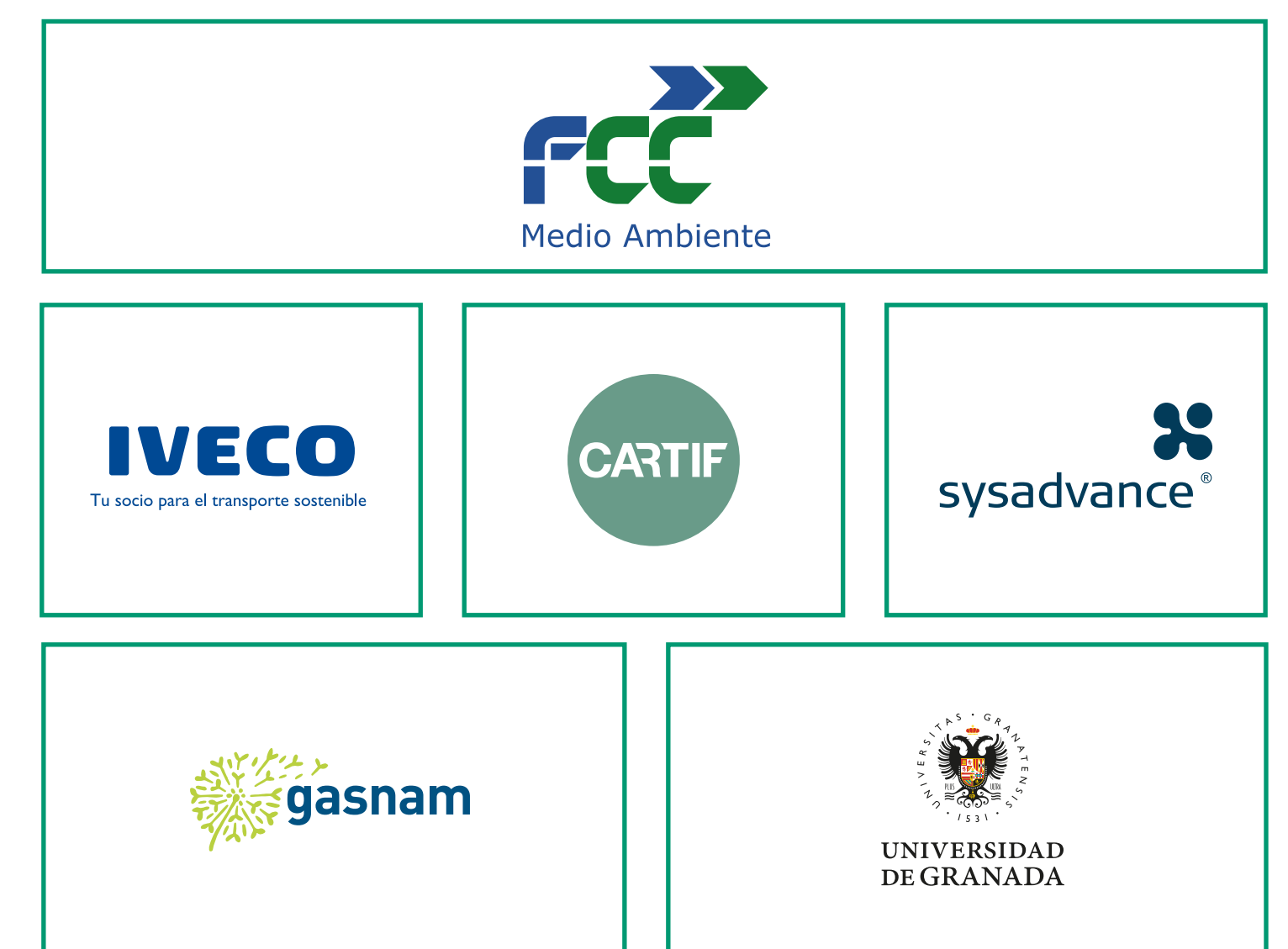
BIOMETHANE BENEFITS

- Neutralizes CO₂ emissions: its production process is based on the capture of biogas that would be emitted into the atmosphere during the natural decomposition of organic matter.
- Guarantees air quality: it almost completely eliminates emissions that affect human health.
- Strengthens circular economy through the use of waste and its transformation into a fuel.
- Improves environmental management of organic waste.
- It is totally interchangeable with natural gas: it can be supplied in the same gas stations and used in the same vehicles.

ABOUT THE CONSORTIUM

Life Landfill Biofuel has a consortium of six companies from Spain and Portugal.

FCC Medio Ambiente leads the Project. CARTIF Foundation and SYSADVANCE participate as technology and service providers. GASNAM, Iberian association of natural and renewable gas for mobility, and the UNIVERSITY OF GRANADA are responsible for the market knowledge and the project promotion. IVECO participates as vehicle manufacturer.



Renewable gas compatible with natural gas in any proportion, allowing approaching a CO₂ Balance = 0

