



Case Study

SEPGREEN

Development of a new process for the recovery of used oils and emulsified hydrocarbons by using bio-based deemulsifiers and sustainable electrotechnologies

THE CHALLENGE

Lack of sustainable and economical technologies for separation of emulsions in the treatment of oily and hydrocarbon waste, currently treated by LINERSA.

THE SOLUTION

New knowledge on alternative systems for water separation in emulsified oils and waste hydrocarbons, based on the combination of the following technological concepts:

1. A new emulsifying formulation using a biomass origin product.
2. Design and proof of concept of a continuous electro-assisted system that accelerates and facilitates the phase separation.

BENEFITS

Up to date, there is not a similar process to the one proposed in this project for the treatment of hydrocarbon waste.

Laboratory results show promising evidence on reducing residence times in water separation, as well as potential in getting reagent formulations adapted to the specificities of the residue.

In this way, it is expected to increase the productivity of the company's main treatment line, optimize the consumption of demulsifying reagent and incorporate products with a higher degree of biodegradability, which favor the subsequent treatment of the separated waters

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Fondo Europeo de
Desarrollo Regional (FEDER)
"Una manera de hacer Europa"

Europar Batasuna
Unión Europea

Eskualde Garapenerako
Europar Funtsa (EGEF)
"Europa egiteko modu bat"

This project has been funded by the Department of Economic Development, Sustainability and Environment in the Basque Country, and co-financed by the European Union through the FEDER (within the framework of the Basque Country Operational Program FEDER 2014-2020).

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