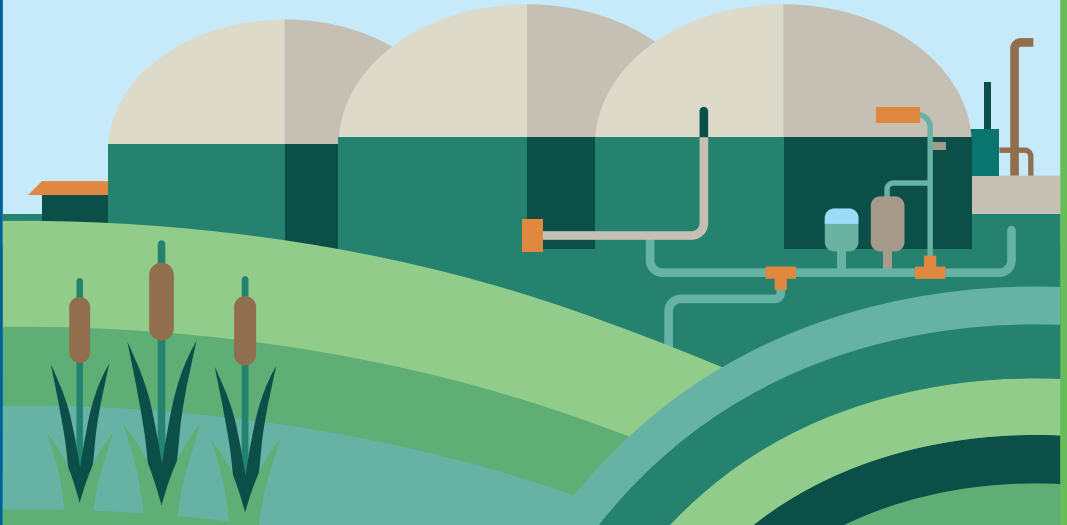




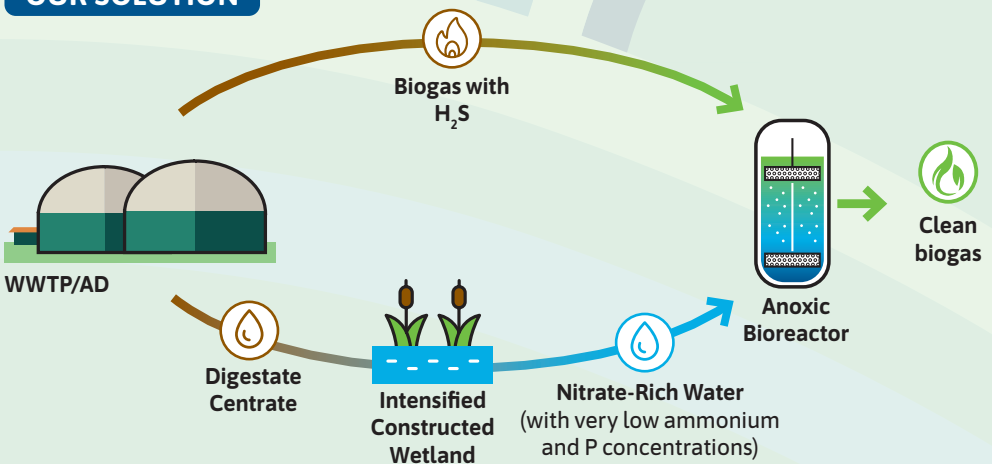
GreenCouple

Sustainable biogas purification by integration of a nature-based solution for digestate centrate treatment with biological H_2S removal



LIFE GreenCouple is an EU-funded project that brings together two innovative technologies to turn anaerobic digestion (AD) by products into cleaner streams through a low impact and circular purification approach. It aims to reduce costs, minimise environmental impacts, and demonstrate how digestate centrate and biogas sustainable purification can be effectively scaled up.

OUR SOLUTION



WHEN TWO GREEN TECHNOLOGIES COUPLE

WHAT MAKES LIFE GREENCUPLE UNIQUE?

LIFE GreenCouple links bioreactors and wetlands in a disruptive, never-before-reported combination to purify biogas and increase sustainability of anaerobic digestion.



INTENSIFIED CONSTRUCTED WETLANDS (CW)

Uses a nature-based process to treat digestate, transforming and removing contaminants, and obtaining a biogenic nitrate-rich stream to be further valorised.



ANOXIC SUSPENDED BIOMASS BIOREACTOR (SBB)

Valorises the nitrified digestate centrate stream to biologically remove hydrogen sulphide (H_2S) from biogas.

FROM INNOVATION TO ACTION

Tested across three demo sites in Spain and Ireland, the system will show how a smart, nature-based and circular approach can boost anaerobic digestion implementation and pave the way for a cleaner bioenergy future.

GREENCUPLE FIGURES



6 Partners



2,5 M Funding



48 Months



4 Countries

THE PARTNERS

Coordinator



FOLLOW OUR JOURNEY



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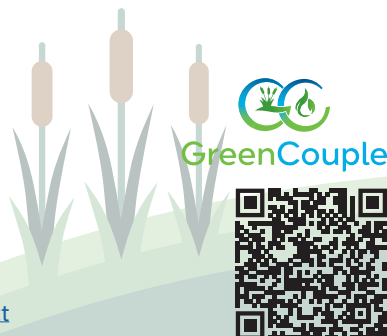
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