



PhotoUP

Unlocking biomethane purification with biological solutions

WHO WE ARE:

PhotoUP is a U. Minho spin-off focused on developing sustainable energy solutions.

THE PROBLEM:

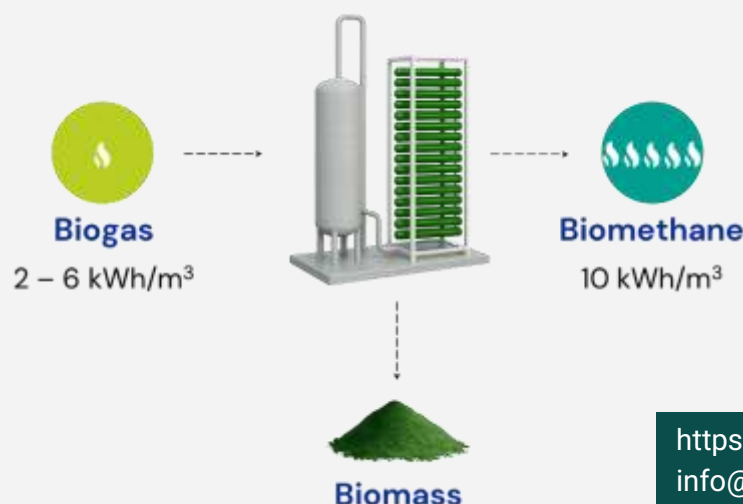
Landfills and **wastewater treatment plants** generate small and irregular biogas streams (< 150 m³/h), making current biogas upgrading technologies economically unfeasible.

THE SOLUTION:

PhotoUP is developing a **microalgae-based technology** that purifies biogas streams into **biomethane** (renewable natural gas) and **microalgal biomass**.

THE BENEFITS:

- **Flexible:** Our technology is designed to meet the specific needs of small-scale plants.
- **Carbon-to-biomass:** CO₂ present in biogas is captured and converted into microalgal biomass in 1 step.
- **Co-product:** Microalgal biomass with industrial application as animal feed or biostimulant.
- **Easy to use:** Our technology is built to be simple and user-friendly, even for non-technical users.



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TECMINHO
UNIVERSIDADE DO MINHO INTERFACE

UPTEC

BLUEBIO
ALLIANCE