



LIFE ULISES PROJECT



With the contribution of the European Union
LIFE programme LIFE18 ENV/ES/000165



Upgrading wastewater treatment plants by low cost innovative technologies to reach energy self-sufficiency and full recycling

Project description

The main goal of LIFE Ulises Project is to upgrade conventional wastewater treatment plants (WWTP) by different innovative technologies that produce useful resources from wastewater, such as automotive biofuel, biofertilizers and water for reuse. The project aims to reduce energy consumption and carbon footprint of WWTPs, increasing their efficiency by the integration of different technologies in each of their lines (water, gas, sludge).

During the project, the next low cost technologies will be implemented in El Bobar WWTP (Almería):

- Biogas up-grading with ABAD Bioenergy® system to produce a renewable biofuel (Aqualia, Energylab)

- Combined PUSH anaerobic pre-treatment with advanced aeration control system to half energy demand of wastewater treatment process (Aqualia)
- Solar tertiary treatment based on photo-phenton to produce disinfected water for irrigation (Ciesol – UAL)
- Biofertilizer production from sludge by enzymatic hydrolysis treatment (CETIM, aqualia)
- Struvite recovery system from concentrate by direct osmosis technology (CETIM)

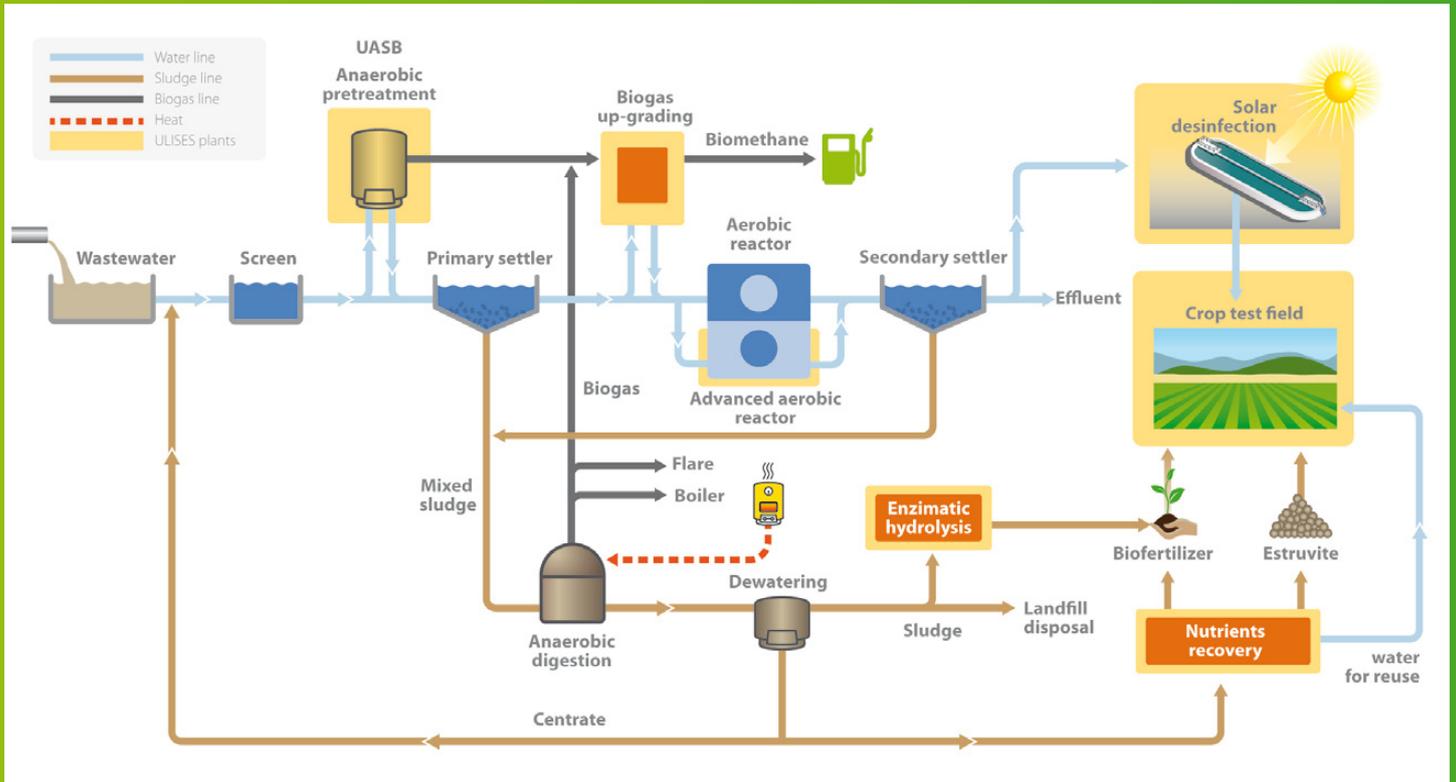
All these innovative technologies will let reduce the electric consumption of El Bobar WWTP and then, minimize its environmental impact and carbon footprint.



Location: El Bobar WWTP (Almería)

Duration: From the 1st of July 2019 to the 30th of June 2022

Total Budget in Euro: 1,902,784 € **Aqualia:** 1,002,249 €



PROJECT PARTICIPANTS

- AQUALIA (leader),
- CETIM
- CIESOL-UAL
- ENERGYLAB



DETAILS OF FUNDING

Funding: LIFE Environment and Resource Efficiency.
Organism: European Commission (EC).
Project: LIFE18 ENV/ES/000165
Grant: Subsidy of 55% of budget.

Funding Received
 Total Budget in Euro: 1,041,810 €
 Aqualia: 547,146 €