



H2020 INCOVER PROJECT



This Project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement N° Agreement 689242

Innovative Eco-Technologies for Resource Recovery from Wastewater

Project Description

The aim of the project is to transform wastewater into a range of added value products, mainly biomethane, bioplastics, biofertilizers and water of a reusable quality. The project will entail using DSS technology (decision support system) to select the most efficient treatment solution from a technical, social and financial perspective, and to monitor it using optical and virtual software sensors.

The project will be carried out in three case studies on a demonstrative scale (TRL 7-8), located in Barcelona (UPC), Almeria/Chiclana (Aqualia) and Germany (UFZ). Aqualia is in charge of case study 2.

The main technologies to be used are:

1. Extraction of bioplastics from algae/ bacteria cultivated in HRAP ponds: Institute of Experimental and Technological Biology (iBET) and Biotrend.

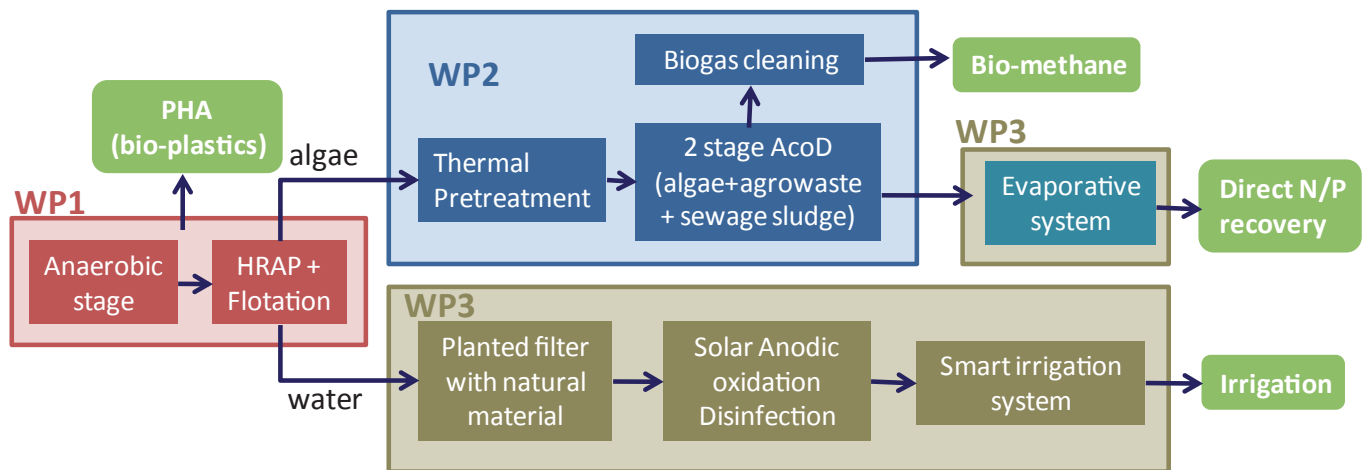
2. Optimised raceways measuring 1500 m² to treat wastewater: Aqualia
3. Pre-treatment and anaerobic Co-digestion of algae: Aqualia
4. Biogas upgrading to produce biomethane, based on washing columns with microalgae: University of Valladolid
5. N and P recovery from digestate using an evaporation plant system: Center for Recirkulering and Aarhus University
6. Tertiary treatment of treated water by way of absorption through plant filters and disinfection by solar oxidation. Filters: Center for Recirkulering and Aarhus University
Disinfection: Autarcon GmbH
7. Intelligent irrigation system: Future Intelligence



Location: EDAR El Toyo (Almería) y EDAR El Torno (Chiclana de la Frontera, Cádiz)

Duration: From the 1st of June 2016 to the 31st of May 2019

Total Budget in euro: 8,431,385 € **Aqualia:** 878,625 €



PROJECT PARTICIPANTS

- Asociación de Investigación Metalúrgica del Noroeste (AIMEN) (Coordinator),
- FCC Aqualia S.A.
- Aarhus Universitet
- Universitat Politècnica de Catalunya
- Helmholtz-Zentrum fuer Umweltforschung gmbh - UFZ
- Future intelligence erevna tilepikinoniakon ke pliroforiakon systematon epe
- Gregersen Peder
- Simbiente, Engenharia e Gestao Ambiental Ida
- Universidad de Valladolid
- SolarSpring gmbh
- Teknologisk Institut
- Autarcon gmbh
- Instituto de Biología Experimental e Tecnológica
- Renergie Systeme gmbh & Co kg
- Biotrend – Inovacao e Engenharia em Biotecnologia S.A.
- Office International de l'Eau
- Isle Utilities Limited
- Iclei European Secretariat gmbh (iclei europasekretariat gmbh)



Universidad de Valladolid



DETAILS OF FUNDING

Funding: Horizon 2020 Framework Programme.

Organism: European Commission (EC).

Project: Grant agreement no 689242.

Grant: Subsidy of 70% of budget.

This publication only reflects the author's view. The European Commission is not responsible for any use that may be made of the information it contains.

Funding Received
Total Budget in Euro: 7,209,032.01 €
Aqualia: 615,037.50 €