# Optimisation of the industrial production and development of drying and storing microalgae

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# DOWNSTREAM Project

# PROJECT

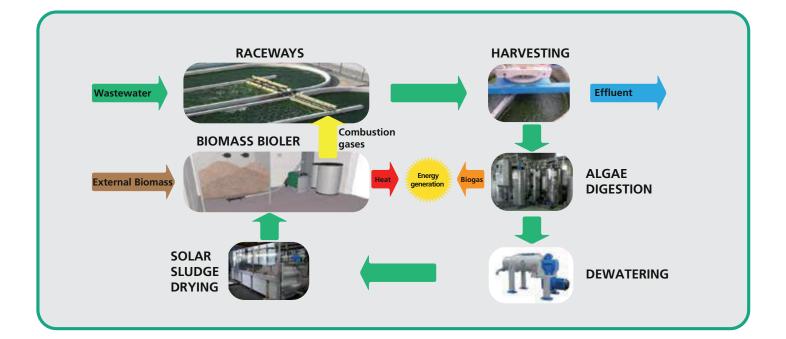
GOBIERNO DE ESPAÑA MINISTERIO DE EDUCACIÓN, CULTURA Y DEPORTE

Applied research on optimising the cultivation of algae in wastewater and its subsequent processing. The seasonality of microalgae cultivated in mixotroph, the fluid-dynamic design and production of CO2 in raceway reactors will be studied to optimise cultivation. The harvest and its subsequent concentration, drying and energy recovery will be optimised for biomass processing.

#### High algal recovery using a Salsnes Water to Algae Treatment (SWAT) filter technology

The FP7 SWAT supports the INNPACTO DOWNSTREAM programme, as its aim is to develop a universal technology to cultivate algae. On the one hand it is based on knowledge regarding the elimination of matter in wastewater, and on the other, on using and optimising current technology to harvest algae.

The project comprises European SMEs (Salsnes Filter, as coordinator, Asio and Inwatec), two research centres (Aquateam and HERI), IGV companies in Germany and Aqualia in Spain, where the new technology will be tested.



Location: Chiclana de la Frontera (Cádiz) Duration: December 2011 – June 2015, divided in 4 annuities Current state: Finished Total budget: 1,285,378 € Aqualia: 747,280 €

## **PROJECT PARTICIPANTS:**



#### **GRANT:**

### **INNPACTO PROGRAMME 2011**

The National Public-Private Cooperation Programme under the framework of the National Scientific Research, Development and Technological Innovation Plan, 2008-2011. Ministry of Science and Innovation.

The main objective of the INNPACTO subprogramme is to foster the creation of cooperative projects among research bodies and companies to jointly undertake R&D&I projects that help to foster innovative activity, mobilise private investment, generate employment and improve the country's technological balance.

MICINN IPT-2011-1344-920000 Financeable budget: 1,285,377 € Aqualia Ioan: 597,824 €





www.aqualia.es innovacion@aqualia.es