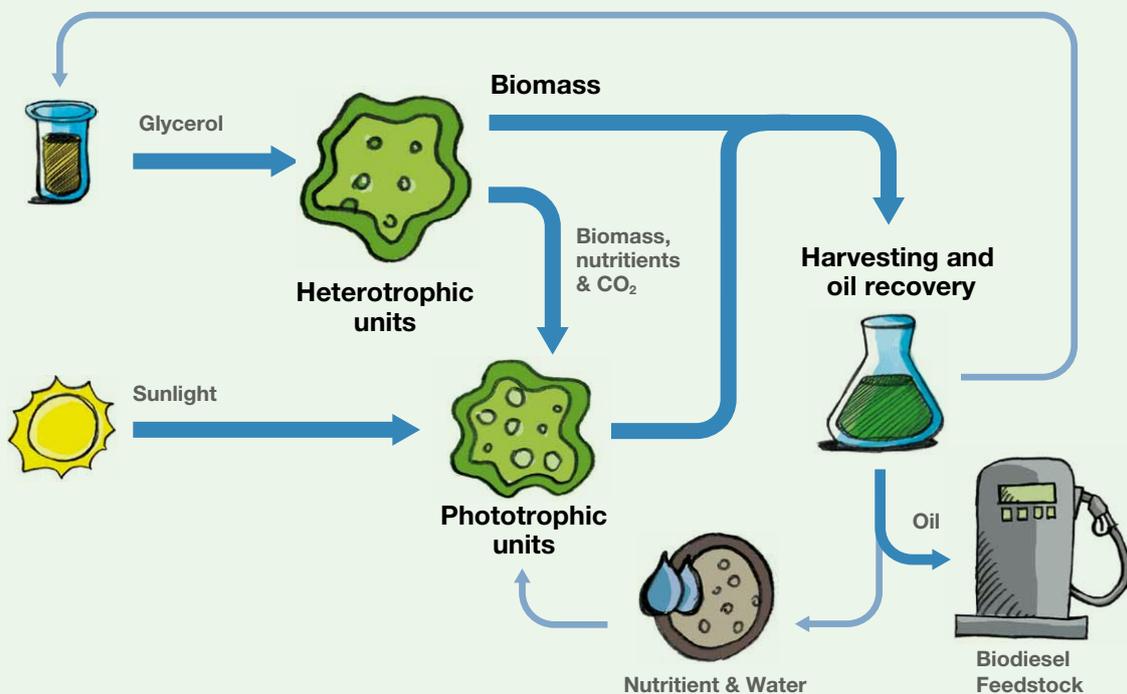


Demonstration of integrated and sustainable microalgae cultivation with biodiesel validation

The overall objective of InteSusAl is to demonstrate an integrated approach to generate biofuels from algae in a sustainable manner on an industrial scale.

Optimise the production of algae

The project will optimise the production of algae by both heterotrophic and phototrophic routes and will demonstrate integration of these production technologies (Raceway, PhotoBioReactor and Fermentation) to achieve the algae cultivation targets of 90-120 dry tonnes per hectare by annum.



The **sustainability** of this demonstration, in terms of both economic and environmental (closed carbon loop) implications will be considered across the whole process; including optimum use of algal biomass resources to enable commercialisation.

The project will select algae species and cultivation technologies to attain **algal oil with a suitable lipid profile for biodiesel** production and will validate this selection through conversion of the extracted oil into biodiesel to meet standard specifications.



 **ALGAE CLUSTER**
SEVENTH FRAMEWORK PROGRAMME



All-gas

www.algaecluster.eu



Aligned with the EU's ambitious renewable energy targets, the European Commission (EC) is participating in the funding of three large-scale industry-led projects aimed at demonstrating the production of algal biofuels along the whole value chain, covering strain selection to algae cultivation and production, oil extraction, biofuel production and biofuel testing in transportation applications

The projects are BIOFAT, ALL-gas and InteSusAl, all three composing the demonstration project **ALGAE CLUSTER**



The InteSusAl consortium is composed of six partners coming from four European countries, whose complementary expertise will enable to successfully deliver the expected results:



The 7th Framework Programme (FP7) for research and technological development is the EU's primary instrument for funding research and demonstration activities from 2007 through 2013 (Decision No. 1982/2006/EC)



The InteSusAl project, co-funded by the European Commission under the 7th Framework Programme, started its work on 1st May 2011, and will run until 31st October 2015.

EUREC Agency E.E.I.G.

Rue d'Arlon 63-67,
1040 Brussels, Belgium

T +32 2 546 1931 • **F** +32 2 546 1934
info@intesusal-algae.eu • www.intesusal-algae.eu