

All-gas Newsletter

05/2013

All-gas main facts

The All-gas Project seeks to demonstrate the sustainable large-scale production of biofuels based on the low-cost cultivation of microalgae. The complete process chain is taking place based on a cultivation area of 10 hectares, with the goal of wastewater treatment becoming energy self-sufficient.

The Project (n° ENER/FP7/268208) is co-financed by the EU FP7 program with € 7,1 million.

Project participants

aqualia, as a leader, (Spain), Feyecon (Netherlands), BDI-Bio Energy International (Austria), Hygear B.V. (Netherlands), University of Southampton (United Kingdom), Fraunhofer-Gesellschaft (Germany) and MTD (Turkey).



More info:

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First harvested microalgae biomass at the WWTP of Chiclana de la Frontera

After eight months of hard work of installation and starting up of the pilot plants since the kick off of the FP7 All-Gas project, recently it has achieved one of the major milestones: harvest of the first algae biomass cultivated in the raceways ponds of Chiclana de la Frontera (Cádiz, Spain).

The culture medium used for growing the biomass harvested was an effluent from an innovative wastewater anaerobic reactor, called UASB (Up flow Anaerobic sludge Blanket). Regardless of the success that the harvest represents itself, it is noteworthy that the algal biomass obtained has a high energy potential, due to its lipid content (around 5%), and its degree of digestibility, with a methane production capacity of around 200-300 liters of methane per kilogram of biomass treated by an anaerobic digestion process.

Within a few months, when the project reaches its demo phase, the biogas produced will be used to feed the fleet of buses of the town of Chiclana.

The new Project intranet, a key to an efficient management

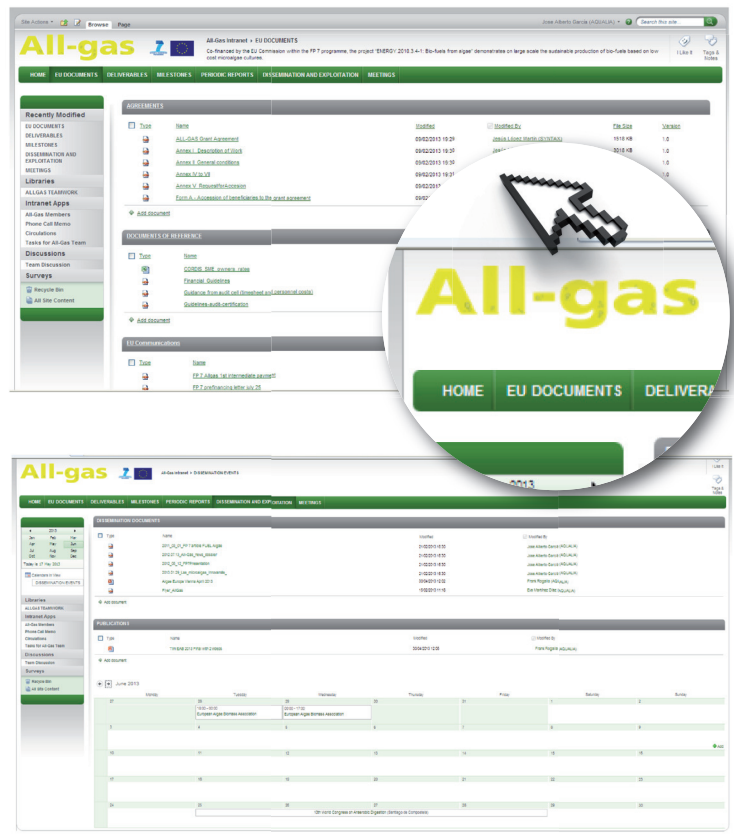
Since the beginning of this year, **All-gas** Project has had a new management tool: the intranet website. Developed as a Sharepoint it has restricted access, for members of the Consortium only.

This new tool allows the partners to check and download all deliverables and progress project reports, as well as presentations shown during the internal meetings. This sharepoint is then a meeting place for all members of the Consortium, where, in addition to the latest milestones and schedules, the latest guidelines and agreements from the Commission can be accessed at any time. In addition dissemination materials and relevant events are published.

- For any question about the intranet <http://allgas.sharepoint.com>, you can contact:

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The work of biomass plant are on schedule

After numerous negotiations with the local and regional governments, works to build the biomass plant are on schedule. To facilitate the progress of the work, the permits are being managed in two phases: the experimental (over 1,000 m²) and demonstrative (about 10,000 m²).

As a preparation for the demo phase, the algae cultivation prototypes are being built and integrated with the anaerobic pre-treatment unit and other pre- and post-treatment facilities.

The facilities will include inoculation raceways (6 x 32 + 6 x 3 m²), already in operation and production raceways (2 x 500 m²). At this moment aqualia is starting the civil work of production raceways (2 x 500 m²). This prototype unit will be integrated in the future demo site and scaled in relation to the other equipment and processes.

