

Barcelona, January 2016

## **LIFE Project Aware: demonstration of technologies for water reuse and disposal of organic organic micro pollutants**

The LIFE+ aWARE Project, starts its third year developing initiatives to promote water reuse, which is considered the most sustainable solution to reduce water stress suffered by a significant part of the European territory.

The aWARE project that counts with the participation of the research centres Cetaqua and LNEC together with the Aguas de Barcelona is based on Baix Llobregat Water Reclamation Plant that produces two different water qualities water for a number of reuse applications. The basic reclamation system produces water for agriculture, industries, environmental uses (wetland and Llobregat river ecological flow maintainance) as well as for municipal uses. An additional advanced reclamation plant comprising ultrafiltration and reverse osmosis produces water that is injected into the aquifer as saline intrusion barrier,



Since January 2015, a demonstration scale prototype, consisting in a membrane bioreactor (MBR) which effluent is further treated by a combination of powdered activated carbon (PAC) and capillary nanofiltration (NF), is being operated and optimized in the Baix Llobregat Water Reclamation plant. The use of PAC in combination with the NF is focused on reducing the levels of organic micro pollutants which are only partially removed in conventional wastewater treatment plants before they are discharged to the aquatic environment

The results obtained in the aWARE will allow conducting a technical, economic and environmental comparison of the technologies tested in the LIFE Aware project against the state of the art water reclamation schemes. In addition the improvement of the water quality parameters including those established in the Spanish Royal Decree 1620/2007 and organic micro pollutants is also being evaluated for the different water reuse systems.



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