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LIFE AMIA



This project has received funding from European Union's LIFE Programme under grant agreement LIFE18 ENV/ES/000170.

MORE INFORMATION:

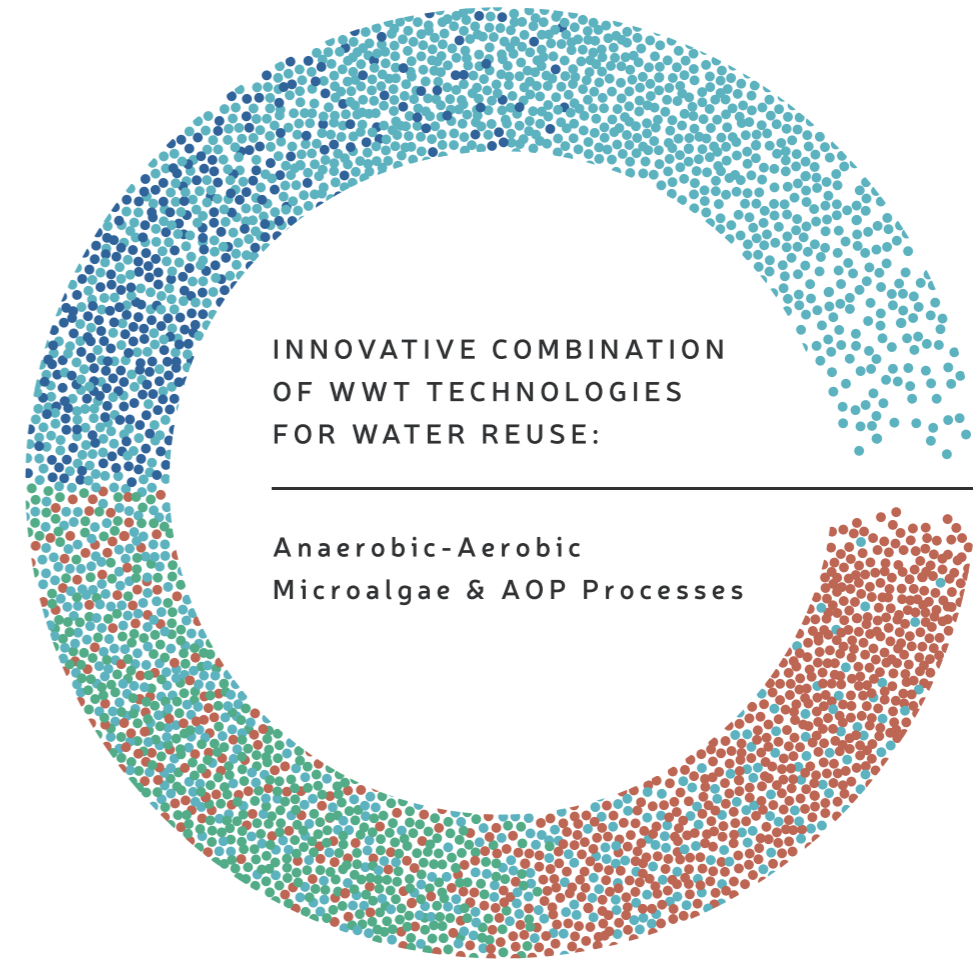
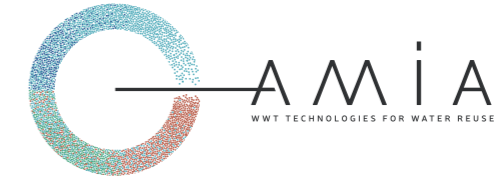
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LIFE AMIA

LIFE AMIA project is an innovative demonstration European Project, framed within the LIFE 2018 call, with a total budget of 1,945,914 €. The project lasts 40 months, from September 2019 to December 2022.

LIFE AMIA aims to reuse wastewater in agricultural irrigation and aquifer recharge to protect aquatic environment against pollution caused by pathogens and micropollutants not removed by conventional wastewater treatment plants (WWTP), at significantly reduced energy requirements.

LIFE AMIA project will apply advance techniques for pathogenic microorganisms detection and monitoring, following the recommendations of the new European Regulation that establishes the minimum requirements for water reuse and guarantee the safe use of this resource.

SPECIFIC OBJECTIVES



To reuse wastewater in agricultural according to the new European Water Reuse Directive.



To provide an energy self-sufficient system to treat municipal wastewater.



To reduce the environmental impact of the produced sludge, reducing sludge production and minimizing the management costs.



To reduce the carbon footprint and GHG emissions.



To remove micropollutants and pathogens from the wastewater.



To recover nutrients (algae) to be used as biofertilizer.



To introduce metagenomic techniques for the quantification of microorganisms.

THE TECHNOLOGY

LIFE AMIA technology is a novel process consisting of an anaerobic-aerobic compact treatment, a microalgae raceway and a combination of adsorption and oxidation process (AOP). The new concept of WWTP will recover nutrients (algae) and reduce the net energy consumption and consequently reduce the emissions of greenhouse gases (GHG) by means of:



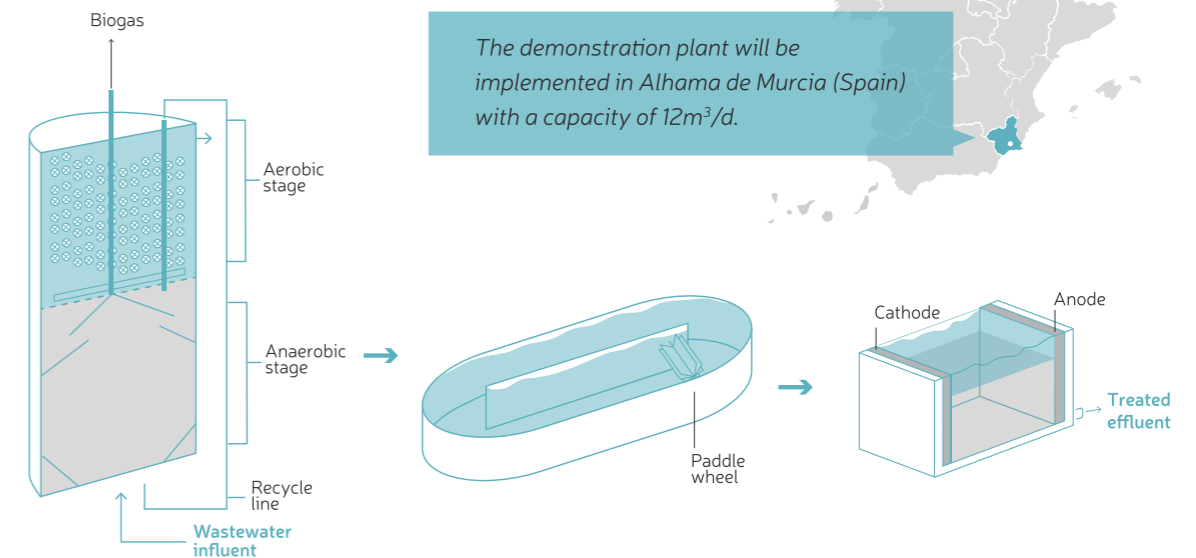
Anaerobic treatment that produce biogas and consume less energy.



Microalgae treatment with low energy requirements.



Adsorption & Electrooxidation technology supplied by renewable energy.



A²C process

HRAP

AOP

The demonstration plant will be implemented in Alhama de Murcia (Spain) with a capacity of 12m³/d.