Aqualia strategy and projects in R&D+i

SUSTAINABLE PURIFICATION

PROJECTS

H2020 REWATERGY · Elimination of micropollutants in drinking or wastewater through photo and electrodisinfection processes. Adsorption of ammonium from wastewater and conversion to hydrogen. Led by the Rey Juan Carlos University. Lleida and Jerez de la Frontera.

LIFE INTEXT · Optimisation of low-cost treatment technologies in small populations. Led by Aqualia. Talavera de la Reina.

LIFE ZERO WASTE WATER · Treatment of wastewater with positive energy balance through the combination of organic waste, in small populations. Led by Aqualia. Madrid (Valdebebas) and Almería.

LIFE INFUSION · Leachate digestion and resource recovery from municipal solid waste. Led by Eurecat. Gijón

LIFE RESEAU · Increase in capacity and resilience of sanitation infrastructure in the face of climate change. Led by Aqualia. Moaña.

H2020 NICE · Innovative nature-based solutions for a more sustainable urban water cycle. Led by CETIM. Algeciras and Madrid

REUSE. DRINKING WATER PRODUCTION AND SUSTAINABLE DESALINATION

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H2020 SEA4VALUE · Recovery of valuable resources from desalination brines. Led by Eurecat. Adeje.

LIFE PHOENIX · Optimisation of tertiary treatments for agricultural reuse of wastewater. Led by Aqualia. Almería.

H2020 REWAISE · Implementation of solutions in sustainable desalination, recovery of materials from brines and reuse of wastewater and its transformation into byproducts. Led by Aqualia. Asturias, Badajoz, Adeje, Denia, Salamanca and Vigo.

SUSTAINABILITY AND **ENERGY EFFICIENCY**



LIFE ULYSSES · Transformation of conventional WWTPs into factories for the production of energy and biofertilisers. Led by Aqualia. Almería.

MISIONES ECLOSIÓN · Creation of materials, technologies and processes for the generation, storage and transportation of renewable gases such as hydrogen and biomethane. Led by Aqualia. Jerez de la Frontera, Lleida and Salamanca.

ZEPPELING MISSIONS · Green hydrogen production and storage technologies based on the use of waste and by-products (agri-food, textiles, treatment plants, and refineries). Led by Aqualia, Algeciras,



Aqualia's R&D&i strategy

ACTION AREAS

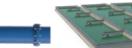
In small and large

populations.



Based on **cooperation**, both with companies. institutions, public administrations, universities, etc.

Research always oriented towards the well-being of the people.





Collaborative context with researchers, as a key pillar in developing the strategy.

Development in locations with positive direct impact.









PROJECTS IN 2023

6,416,144 €

INVESTMENT IN R&D&I

CIRCULAR ECONOMY AND BIOFACTORIES



RIS3 EFLUENT-EX · Promotion of clean energies and the use of agroindustrial organic waste. Led by Aqualia. Badajoz.

H2020 BBI B-FERST · Development of biofertilizers from urban wastewater and byproducts from agri-food industries. Led by Fertiberia. Jerez de la Frontera.

H2020 BBI DEEP PURPLE · Demonstrative scale biorefinery using phototrophic purple bacteria (PPB) in anaerobic carousels. Led by Aqualia. Linares and Badajoz.

 $\ensuremath{\text{\text{HE CHEERS}}}$ \cdot Revaluation of by-products underused or wasted by the beer industry. Led by Mahou-San Miguel. Lleida.

INDUSTRIAL WATERS

PROJECTS

H2020 ULTIMATE · Sustainability and creation of economic value through synergies between the industry and water cycle management. Led by KWR. Lleida.

HE RESURGENCE · Management of industrial water consumption: efficient technologies, recovery of energy and raw materials, with a view to contributing to climate neutrality, circularity and the competitiveness of the European Union. Led by CETIM.

DIGITAL DEVELOPMENTS

PROJECTS

H2020 REWAISE* · Simulation of networks and plants to optimize service efficiency, water quality and process control Led by Aqualia. Asturias, Badajoz, Fonsalía, Denia, Salamanca and Vigo.

*project with two main lines of action

UMI AQUATIM · Study and implementation of new technologies throughout the end-to-end water cycle. In collaboration with CETIM. Santiago de Compostela.

HE D4RUNOFF · Tools to quantify, avoid and manage diffuse pollution produced by urban runoff waters. Led by Vand Center Syd. Algeciras, Ostrava (Czech Republic) and Cairo (Egypt).

HE NINFA · Groundwater monitoring and protection systems to increase resilience and implement treatment and mitigation solutions Led by Leitat. Los Alcázares.