

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 INTXT · 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

PROJECTS

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

PROJECTS

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.**

ZEPPILING 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

6

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.

Development in
locations with
positive direct
impact.

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

21

PROJECTS IN
2023

6,416,144 €

INVESTMENT
IN R&D&I

CIRCULAR ECONOMY AND BIOFACTORIES

PROJECTS

RIS3 EFLUENT-EX · Promotion of clean energies and the use of agro-industrial 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.**

HE CHEERS · 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.**