

 Case study factsheet

Alicante, Spain

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 **B-WaterSmart** Project B-WaterSmart

City of Alicante (Region: Comunidad Valenciana) , **Spain (españa)**



Description

The Alicante Living Lab aims to exploit 100% of the reuse potential in the region and to promote circular economy strategies both at the Rincón de León WWTP and in the region. In the water-energy vector, solutions for the co-digestion of oils and greases or the installation of microturbines for energy recovery from wastewater treatment plant effluents will be evaluated. In the water-resources vector, ion exchange membrane technologies will be evaluated to maximise the recovery of reclaimed water, as well as the recovery of raw materials from current reverse osmosis rejects. On the other hand, evaporation and crystallisation solutions will be evaluated for the recovery and valorisation of nutrients in the sewage sludge line.

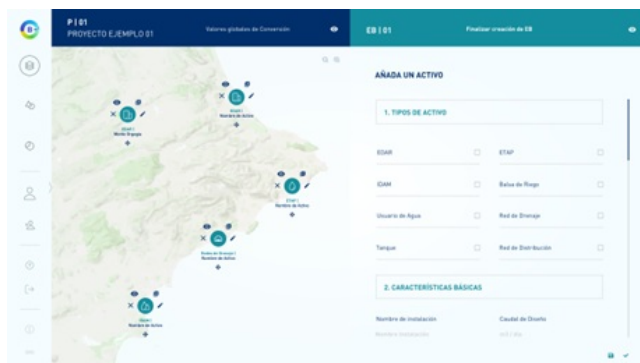
Within the framework of the Living Lab on reuse, a digital decision-making support tool will also be developed to help simulate future scenarios for the investments to be made in infrastructures, to quantify the environmental benefits and impacts derived or to select the optimal treatments in terms of profitability, among others.

Applied technologies

- Material recovery technologies
- Energy recovery technologies

Applied product

RE-ACTOR



<https://mp.watereurope.eu/d/Product/61>

Scales

Operational scales of this case study related to the application of tools and technologies

- Local scale
- City scale
- Metropolitan scale
- Regional scale

Challenges

Challenges that are addressed through the application of tools and/or technologies to the case study

- Water Scarcity
- Limitations to water reuse due to high salinity/nitrates
- High drinking water demand due to dense or growing resident population and economy
- High or increasing irrigation water demand for agriculture
- Groundwater overexploitation
- Dependent on distant freshwater resources
- Need for reuse and recovery schemes for wastewater & sludge
- Other

Related tags

Wastewater reuse

Nutrient recovery

Material recovery

Energy recovery

Contact data

Contact person

Ignacio Casals (ignacio.casals@aguasdealicante.es, AMAEM); Esther González (esther.gonzalez.ext@externalpartner.com, AMAEM); Mario Ruiz (mruizm@cetaqua.com, CET); Celia Castro (cmcastro@cetaqua.com, CET)

Involved organisations

1.



Aguas Municipalizadas de Alicante (ALICANTE)

2.



Centro Tecnológico del Agua, Fundación Privada (CETAQUA)

URL

<https://b-watersmart.eu/living-lab/alicante-spain/>