

Project idea/ Field of expertise:

Water and wastewater treatment. Advanced oxidation processes

Organisation Name:

**Institut Quimic de Sarrià, Barcelona
(University Ramon Llull, Spain)**

**Adressed challenge(s)/
PPP(s):**

Sustainable Process Industry (SPIRE)

**Adressed topic(s) in
Work Programme:**

**CE-SPIRE-07-2020: Preserving fresh water:
recycling industrial waters industry (IA)**



Circular Economy Research Lines at Institut Quimic de Sarrià, Barcelona (University Ramon Llull, Spain)

- Leitmotiv: Sustainable engineering following the concepts of a **circular economy**
- Goal: Provide solutions to the current challenges of society: climate change, **water scarcity** and population growth. **Water and wastewater treatment. Advanced oxidation processes**
- **Projects**: RIS3CAT: Regireu. Research on water regeneration technologies and risk management for reuse. Interreg SUDOE: KET3GAS

Molecular Modeling and Process Simulation

Wastewater Treatment



Biological treatments

Greenhouse gases (GHG) mitigation



CO₂ capture, F-gases recovery

Sustainable Energy



Biofuels from biomass

Analytical Techniques

Our project idea / expertise

- Our proposal demonstrates an eco-innovative and energy-efficient solution to treat wastewater for a zero liquid discharge in real industrial environments
- Large-scale demo plants will be implemented in order to treat the effluents generated by high-water-consuming sectors



Consortium

Known partners / Competence offer

Name	Type	Country	Role in the project
TEQMA	SME	Spain	Application water filters
Selvert	SME	France	Test site
HYDROKEMOS	SME	Spain	Application electrooxidation

Partner search

Profile	Type	Country	Role in the project
Water Re-Use Industry	Large Company	EU	Implementation of tested technologies to re-use freshwater
Technological Centre		EU	

Contact details

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