

Context

In the last decade, a wide range of wastewater treatment and regeneration technologies has been developed to provide high quality and reusable effluents in multiple uses. However, many of these technologies are not capable of eliminating so-called emerging pollutants (ECs). These pollutants, such as pharmaceuticals and their metabolites, have been particularly worrying because of their high biological activity and because their non-biodegradable nature causes their bioaccumulation to occur in the food chain.

Objective of 4KET4Reuse

The main objective is the validation of four enabling technologies (KETs) for the elimination of ECs in reclaimed water, as well as their promotion in the SUDOE space market. The three participating regions and the contributing technologies are:

- Andalusia (Spain), with filtration systems based on modified clays (nanomaterials) and bioelectrogenic systems.
- Languedoc-Roussillon (France), with systems based on solar photocatalysis.
- Lisbon (Portugal), with electrokinetic processes.

Activities



1. Design of a common methodology for the validation of KETs in the participating regions.



2. Design, start-up and evaluation of prototypes (TRL5-6).



3. Analysis of results and market exploration.



4. Capitalization of results and transfer to other regions of SUDOE.

**KETs for the
elimination of
emerging
pollutants in
recovered water
in the SUDOE
space.**

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