

A project for laundries

There are around **11,000 laundries** in Europe, with an estimated water consumption of more than **40 million m³** per year. This sector generates large quantities of micropollutants, phthalates, phenols, and heavy metals, etc., that are poorly treated in waste water treatment plants, and affect both humans and the environment.

The objective of the European Life RECYCLO project is therefore to **recycle effluents from laundries** and reduce their discharge of pollutant substances in aquatic environments, through the implementation of a patented recycling and treatment process.



Project news



Technical achievements

The very first prototype is being constructed on the Treewater site, in Alixan (near Valence). It is being tailor-made to be installed in the **Ramon Noguera Foundation laundry in Girona**. The laundry area is extremely confined, and so the installation has been designed to be perfectly adapted to the company's constraints.

It will be comprised, firstly, of a container for the **coagulation-flocculation** process, the first stage of treatment which removes suspended solids. The core technology can be found in a V12 reactor containing twelve UV lamps. This is where **advanced oxidation** occurs: a physico-chemical reaction between hydrogen peroxide and ultraviolet rays, that destroys more than 90% of pollutants. The final stage of treatment is **activated carbon** filtration.

Each element is designed in Alixan and will be sent to Girona for the final assembly on site.

Meetings with other LIFE projects

Life RECYCLO is part of the **European Commission's LIFE programme**, that funds initiatives for the environment and the climate. This initiative has spawned dozens of water projects, and we wanted to meet their leaders to share our experiences and our solutions for the conservation of this resource.

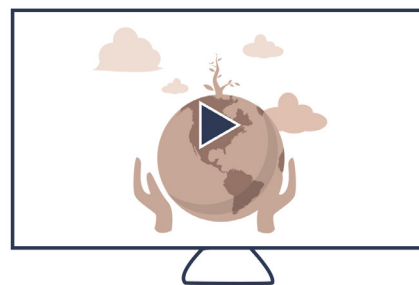
Through various events, we have forged strong links with the **LIFE WAT'SAVEREUSE** project, that aims to raise awareness of circular water economy initiatives. We have shared projects with **LIFE BIODAPH2O**, which implements a natural waste water treatment.

We have also met and had passionate discussions with **LIFE-3E, LIFE ANHIDRA, LIFE MCUBO, LIFE MERMAIDS, LIFE RUBIES, LIFE ZEUS, LIFE HIDAQUA** and **LIFE Waste2Coag**.

Dissemination of the project

SHOOTINGS IN
PROGRESS

Filming for the documentary on the project began last May. It aims to **present the project**, from design to the installation of the first prototype, whilst also explaining **water conservation challenges**.




DOCUMENTARY
PRODUCTION

The first images were filmed in the DEEP laboratory, at the INSA de Lyon, where Treewater's laboratory section is hosted. Filming then continued in Alixan in July during the assembly of the prototype. The next destination is Spain, for the live installation.

The first screenings of this documentary will take place at the **Fête de la Science in Lyon in October**.



RECYCLO was present at:

Three professional events

- The world water day high-level conference by the LIFE WAT'SAVEREUSE project on 20 March, in Barcelona (Spain)
- INRAE's REUSE network webinar, on 29 March, which you can watch [here](#)
- The 6th international IWA ecoSTP conference, from 26 to 29 June, in Girona (Spain)

And also at two events for the general public

- La Fiesta de la Ciencia, on 11 June, in Barcelona (Spain)
- The Festival Between Rhône and Saône, on 1st July, Lyon (France)

What is next?

Coming soon

The first prototype is due to be installed in Girona in September. The second will be installed in a laundry in Luxembourg in late 2023.

Following the installation of the prototypes, the water will be monitored and analysed by **Treewater and the Catalan Institute for Water Research**.

An event will be held in Autumn 2023 on the Spanish site to present the prototype.

You will be able to find us:

- **On 10 October** at the Science Fair in Lyon: find further information [here](#)
- **From 10 to 13 October** on the Treewater stand and at a conference at the Pollutec trade show in Lyon: find further information [here](#)
- Other dates coming soon: all our events [here](#)

Follow us on social networks:  **@LifeRECYCLO**

 **@life-recyclo**

And discover all our latest news on our website: **www.treewater.fr/en/recyclo**