



ECO INNOVATION CLEANWATER PROJECT



Innovative system for disinfection of water using ion exchange membrane

Project Description

Innovative system for disinfection of water using ion exchange membrane

The proposed CleanWater (CW) project entails the industrial-scale demonstration of a new water disinfection system in three commercial applications: drinking water, re-used water and desalination.

The system developed by the French SME CeramHyd represents an alternative method to current chlorination systems.

This new process of on-site hypochlorous acid production from common salt ensures long-lasting disinfection along distribution lines.

The generation of chlorine by-products is dramatically reduced, thus increasing the safety of distributed water as well as diminishing both the environmental impact and economic cost of the process.

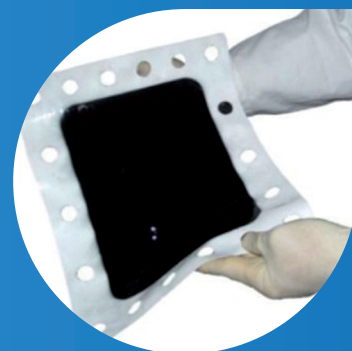
As a Spanish enterprise offering integrated water services, Aqualia's role in the project is as an end user of the technology.

In order to overcome some of the current problems of disinfection using chlorine

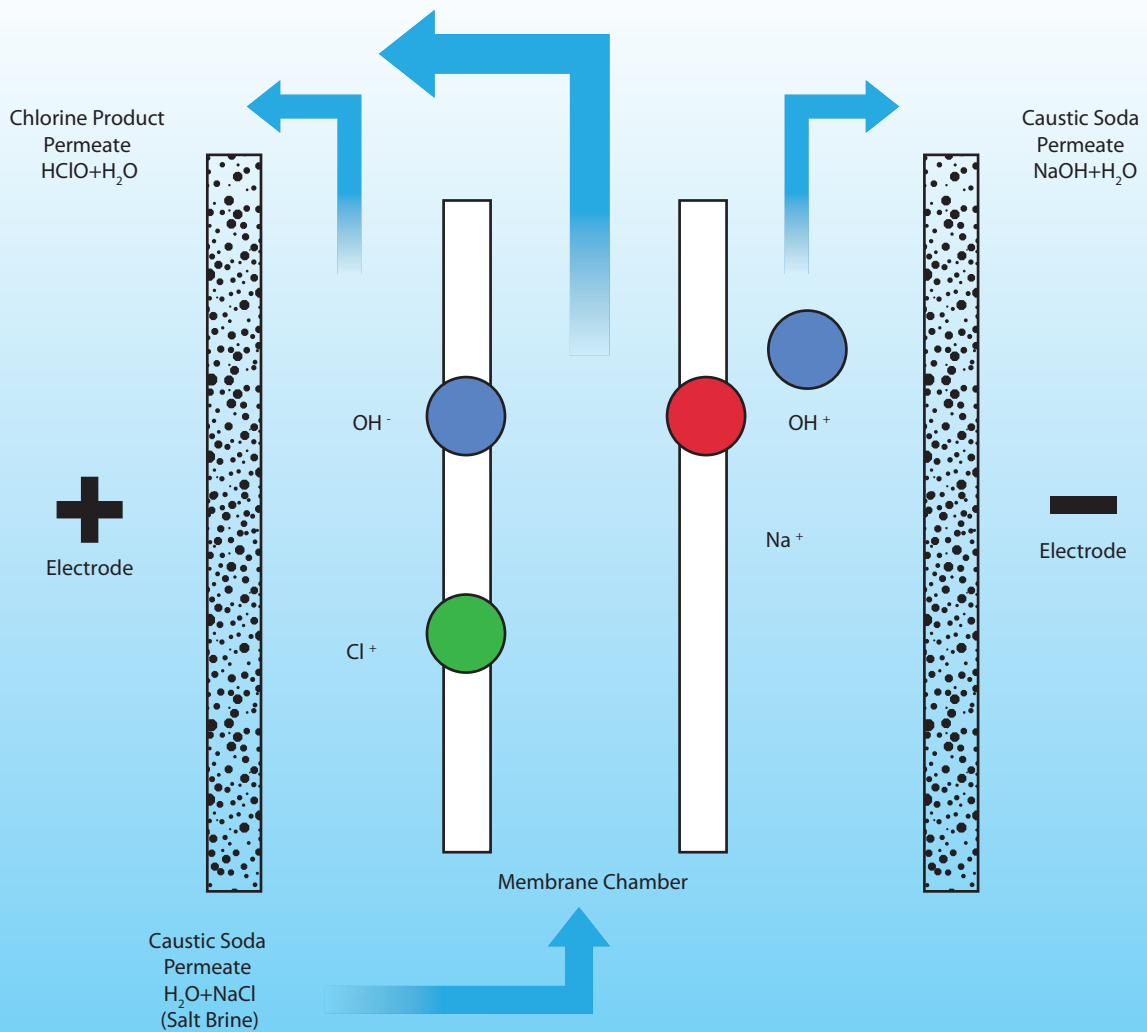
gas, ozone or hypochlorite, among other substances, Aqualia will lend CeramHyd its experience, support and facilities for both laboratory and industrial testing.

Therefore, the CleanWater project has four priorities:

- To adapt CeramHyd disinfection to the three market applications: water consumption, re-use and desalination.
- To assess the 3 systems in 3 different trial plants managed by Aqualia for each of the above applications in order to ascertain optimal operating conditions.
- To obtain the necessary approval certification of the process and disinfection products at European level: NSF International, Ministry of Health and TÜV certified.
- To disseminate the results in Europe to be used both in the water disinfection market, and in water re-use and desalination.



Location: EDAR El Toyo, Almería (Reuse)
EDAS Racons-Dénia, Alicante, (Desalination)
ETAP La Fresneda-Valdepeñas, Ciudad Real (Drinking water)
Duration: From the 1st of July 2014 to the 31st of December 2016
Total budget in euro: 1,666,901 € **Aqualia:** 684,773 €



PROJECT PARTICIPANTS

- CERAM HYD (leader)
- FCC Aqualia, S.A.



DETAILS OF FUNDING

- Funding:** Iniciativa CIP-EIP-ECO-INNOVATION.
- Organism:** European Union.
- Project:** ECO/13/630560
- Grant:** Subsidy of 50% of budget.

Funding Received
 Total budget in euro: 883,450 €
 Aqualia: 342,387 €