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Safe water disinfection by an innovative ion exchange membrane

CleanWater

The purpose of the project is to introduce an innovative water disinfection technology, at a reasonable cost level, and with improved health and safety performance, to the European market. The Ceram Hyd CW technology provides a unique alternative to existing chlorination processes. The technology generates two chemicals, free available chlorine (FAC) and caustic soda, from a raw material consisting of ordinary table salt and water. These two chemicals are central to water supply operations and the CeramHyd technology provides for the economical, efficient and safe production of these vital materials. This technology is significantly safer than the conventional method of producing active chlorine from dangerous chlorine gas or sodium hypochlorite, which must be transported to and stored at the place of use and is subject to rapid storage deterioration. Over the course of this project, the benefits of disinfecting water using the Ceram Hyd technology will be demonstrated at three different water treatment sites of FCC Aqualia in Spain. The demonstration will encompass disinfection for three distinct applications: 1) drinking water, 2) desalinated water (pre-treatment and post-treatment), and 3) wastewater for reuse applications. Intensive tests in operational conditions will provide for optimisation of the system for commercial success. Certification of the technology for the European market will be undertaken as part of the project.



Results

- Adapt Ceram Hyd's disinfection technology product range for three market applications that are disinfection of drinking water, disinfection of desalinated water, and disinfection of re-used waste water.
- Evaluate 3 demonstrators in 3 water treatment plants of FCC Aqualia.
- Certify the disinfection technology for the European market.

Partners and coordinator

[CeramHyd SA](#) ^[1]

France

[AQUALIA GESTION INTEGRAL DEL AGUA SA](#) ^[2]

Spain

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Budget

Overall budget: 1.666.901,00 € (EU contribution: 50,00 %)

In brief

Sector: Water

Duration: 01/07/2014 to 31/12/2016

Contract number: ECO/13/630560

Website: <http://www.cip-cleanwater.eu>

Source URL: <https://ec.europa.eu/environment/eco-innovation/projects/en/projects/cleanwater>

Links

[1] <https://ec.europa.eu/environment/eco-innovation/projects/en/partners/ceram-hyd>

[2] <https://ec.europa.eu/environment/eco-innovation/projects/en/partners/aqualia-gestion-integral-del-agua-sa>