



DESAL+

Desalination Living Lab



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An accessible place to carry out R&D&i related to desalination

The Canary Islands are a great laboratory and world reference in the design and operation of all the existing desalination technologies with more than half a century of experience and the exploitation of more than 400 desalination plants.

Besides, the Archipelago, together with Madeira, Cape Verde and Mauritania, share an excellent availability of natural resources (sun, wind & sea). Desalination infrastructure, natural resources and experience are opportunities for being exploited in this Atlantic area.

This Desalination Living Lab consists of a coordinated group of public and private entities with existing plants and R&D infrastructure that cooperates in applied research on desalination and water-energy nexus. Headed by the Canary Islands partners, this platform offers:

- Technical and logistic support for the installation and testing of prototypes and new devices focused on desalination, related fields and renewable energy desalination.
- Technical support and consultancy for the development, upscaling and demonstration in real conditions of innovative solutions using local all-scales desalination open infrastructure for R&D purposes.
- Training activities, educational programs, knowledge and technology transfer of desalination and use of renewable energy.

This R & D & i platform is promoted by DESAL+ project



About DESAL+ project

Macaronesian platform to increase the R & D & i in water desalination and knowledge of the desalinated water-energy nexus.

The geographical area known as Macaronesia - a collection of four archipelagos (The Canary Islands, Madeira, Azores and Cape Verde) in the Atlantic Ocean off the coast of the continents of Europe and Africa -, has close to 500 all-scale desalination plants in operation. It is the highest density of desalination plants in operation in the world, with about 800,000 m³/day, which represents 1% of the global desalination capacity. In addition, an important group of researchers, engineers and desalination plant operators with very high qualification and knowledge in this sector coexist. The Canary Islands, has 50 years of experience in the exploitation of desalination plants, a fact that has allowed to test and improve all existing desalination technologies.

Main objective of DESAL+ project:

To create and consolidate a joint R&D&i platform in Macaronesia with high capacities and research infrastructure of international excellence in the field of water desalination, knowledge of the desalination-energy nexus and exclusive use of renewable energies.

Coordinated by :



Partners



Companies Associated



This initiative is co-funded by

