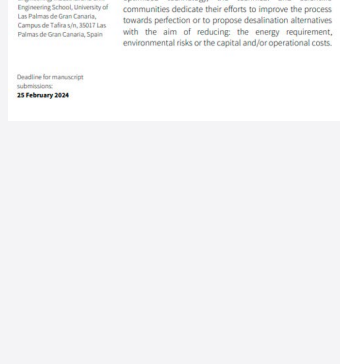




The ECOS 2023 International Congress brings together 400 experts in Gran Canaria to address energy challenges

The DESAL+ Living Lab platform, through the ULPGC and institutional partners, promotes the 36th edition of the ECOS Congress under the framework of the E5DES project.

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The journal WATER (IF 3.53) and DESAL+ LIVING LAB promote the special issue "Advanced Desalination Technologies for Water Treatment"

The guest editors for this special issue are Dr. Baltasar Peñate Suárez (Canary Islands Institute of Technology, ITC) and Dr. Noemi Melián Martel (University of Las Palmas de Gran Canaria, ULPGC), both experts of the DESAL+ Living Lab Platform.

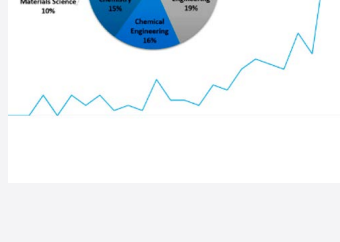
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The SPEGC launches the training and specialization program in the operation and maintenance of desalination plants (DESAL+ CAP-FP)

The Economic Promotion Society of Gran Canaria (SPEGC) of the Cabildo de Gran Canaria, with the support of the Canary Islands Institute of Technology (ITC), launches a training program focused on the operation and maintenance of desalination plants.

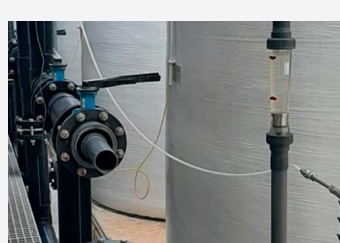
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Researchers from the ITC and ULPGC publish a study on the valorization of brine for productive purposes

The prestigious journal Water publishes the scientific article signed by researchers from the ITC and ULPGC on the physicochemical characterization of brine discharge from different desalination plants in the Canary Islands and its potential to become a high-value resource within the production system.

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Study for the optimization of the remineralization system in the desalination plant of Porto Santo

The objective was to analyse the cause of the problem that led to the pH and LSI of the produced water varying throughout the distribution network, resulting in more corrosive water that exceeded the Portuguese drinking water regulations (LSI = ±1).

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DESALRO 2.0 project, one of the seven finalists in the Miriam Balaban Innovation Award at the EDS Congress in Cyprus

The project goal is to design, build and test a SWRO rack that guarantee a SEC below 2.00 kWh/m³ at an industrial scale of 2,500 m³/d and, with the results obtained, scaling it up to 5,000 m³/d.

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A researcher from the GRRES of the ULPGC is conducting a research stay at Aalborg University

Pedro Cabrera, a member of the Renewable Energy Systems Research Group (GRRES) of the ULPGC and a researcher in the E5DES project, is conducting a research stay at the Sustainable Energy Planning Research Group (SEPRG) at Aalborg University in Denmark.

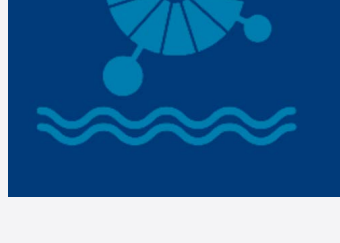
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Efficient water transport using ocean renewable energies: E5DES project, promoting sustainable desalination

Feasibility study of a multichannel underwater fluid transport system supplied by ocean renewable energy prototypes installed on the PLOCAN test bench.

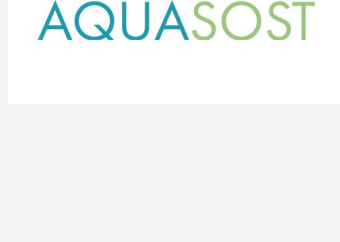
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Now available in English the Performance Report of the DESAL+ Living Lab 2017-2022

The report covers the 5-year trajectory of this R&D platform in desalination since its inception, highlighting the milestones achieved during this period.

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The AQUASOST initiative concludes after increasing the ITC's R&D capacities to advance the sustainability of the industrial water cycle in the Canary Islands

This project, integrated into the DESAL+ Living Lab Platform, has meant an advance in the technological specialization of the ITC, which now has better infrastructures and new services related to water treatment and production, allowing the institution's capacities to be increased to develop more sustainable and efficient solutions.

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EVENTS

Events promoted by DESAL+ LIVING LAB

- [Curso: Mantenimiento de bombas de alta presión y recuperadores de energía](#)
PLACE: *Blended learning*
DATE: 04/07/2023 - 14/07/2023
- [3rd International Conference on Electrical, Computer, Communications and Mechatronics Engineering \(ICECCME'23\)](#)
PLACE: *La Laguna, Tenerife, Spain*
DATE: 19/07/2023 - 21/07/2023
- [Charla: "De la escasez a la sostenibilidad: la innovación en la gestión del agua en Singapur"](#)
PLACE: *Las Palmas de Gran Canaria, Spain*
DATE: 26/07/2023
- [Curso: Postratamientos Y Calidad De Aguas Desaladas Acorde A Su Uso Final](#)
PLACE: *Blended learning*
DATE: 05/09/2023 - 15/09/2023

Upcoming related events

- [6th International Conference on Desalination using Membrane Technology. MEMDES 2023](#)
PLACE: *Sitges, Barcelona, Spain*
DATE: 11/11/2023 - 22/11/2023

Recent Publications:

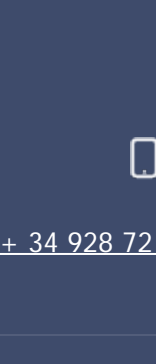
E5DES Project

- [Rivero-Falcón, A.; Peñate Suárez, B.; Melián-Martel, N. SWRO Brine Characterisation and Critical Analysis of Its Industrial Valorisation: A Case Study in the Canary Islands \(Spain\). *Water* 2023, 15, 1600.](#)
- [Tourab, Ahmed Essam and Blanco-Marigorta, A.M. and Elharidi, Aly M. and Suárez-López, María José. Energy and Exergy Analysis of a Hybrid Reverse Osmosis-Humidification Dehumidification \(RO-HDH\) Desalination System Operating Under Different Retrofits. López, Á.H.; Camacho-Espino, J.; Peñate Suárez, B.; Plasencia, G.N.M. Energy Efficiency Optimization in Onboard SWRO Desalination Plants Based on a Genetic Neuro-Fuzzy System. *Appl. Sci.* 2023, 13, 3392.](#)
- See here all the scientific publications generated within the framework of the DESAL+ Living Lab Platform and related projects here: <https://www.desalinationlab.com/scientific-publications/>

OUR PROJECTS



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