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DESAL+
DESALINATION
LIVING LAB



UN WATER
22 MARCH
WORLD WATER DAY
2024 Water for Peace

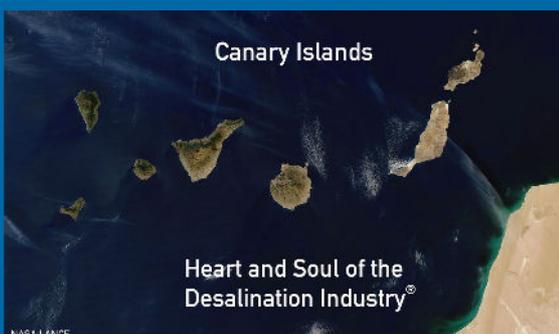
March 2024
Nº 26



[UN issues a call for the importance of water for peace in World Water Day 2024](#)

On this day, the United Nations calls to participate, highlighting the need for individuals, families, businesses, and governments to join the "Water for Peace" campaign and make efforts to cooperate on water matters, paving the way towards a more harmonious society.

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[Celebrating 60 years of water desalination](#)

Spain's first desalination plant was built in Lanzarote 60 years ago. A multistage flash technology was installed in 1964 and the islands' desalination capacity has gradually increased to the current figure of more than 500.000 m³/day with more than 200 desalination plants in operation.

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[DESAL+ LIVING LAB presents results from their brine valorisation pilot plants \(NF – OARO\) at the EUROMED International Conference 2024](#)

DESAL+ LIVING LAB platform will be present at the EUROMED 2024 International Conference on Desalination for clean water and energy.

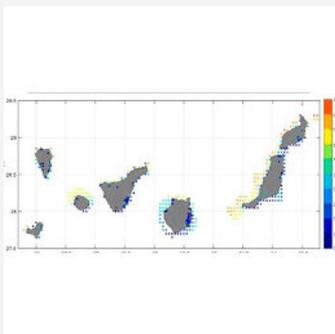
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[Publication of a study on reverse osmosis membrane design options to comply with Royal Decree 3/2023 on drinking water](#)

Among the significant changes introduced in Royal Decree 3/2023 regarding the physical-chemical characteristics of desalinated waters, we can highlight that Boron goes from having a parametric value of 1 mg/L to 1.5 mg/L, and even up to 2.4 mg/L.

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[Publication of results on the study dedicated to pairing wave energy converters in coastal environments.](#)

The work has recently been published in the journal Energy Conversion and Management under the title: "Application of a revised integration of methods for optimizing the pairing of wave energy converter farms in coastal locations".

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[The contest 'Europe Feels' selects the DESALRO](#)



[2.0 project among its finalists](#)

The DESALRO 2.0 project will compete in the #EuropeMovesYou category in the final phase of this competition, organized by the Ministry of Finance and Public Function of the Government of Spain.

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[DESAL+ Living Lab joins the Water-Oriented Living Labs \(WOLL\) Atlas currently existing at European level within the framework of the Water4All initiative](#)

Since the inception of the process, which began in January 2023, DESAL+ Living Lab has demonstrated very high maturity levels in all key aspects defining a WOLL, addressing a challenge of great interest in our times: water desalination.

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[Toray's visit to ITC: Advancing Nanofiltration Technology for Desalination Brine Valorisation](#)

Representatives from Toray Advanced Materials Korea (TAK) and Toray Membranes Spain recently visited the ITC facilities to gain further insight into our brine valorisation open testbed, as part of the cooperation agreement signed between TAK and ITC.

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[Launch of the third Newsletter of the Sol2H2O Project](#)

The third newsletter of the Sol2H2O Project has just been released, aiming to inform about its recent progress and achievements to date.

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Canary Islands bets on technological advancement in the water industry.

Through a public-private ecosystem of innovation and applied knowledge in desalination—led by ACIISI, ITC, ULPGC, ULL, and SPEGC—the DESAL+ Living Lab platform provides the appropriate environment for the development of prototypes and demonstrations of innovative technology for water production.

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EVENTS

Events promoted by DESAL+ LIVING LAB

- [3rd Edition of the Specialized Training Program in Desalination DESAL+ CAP](#)
PLACE: Online
DATE: 28/02/2024 - 11/02/2025
- [Cybersecurity in the Industrial Water Cycle: Prevention, Mitigation, and Resilience \(in Spanish\)](#)
PLACE: Las Palmas de Gran Canaria, Spain
DATE: 28/05/2024

Upcoming related events

- [Online intensive course on "MEMBRANE TECHNOLOGY, PROCESS AND SYSTEM DESIGN"](#)
PLACE: Online
DATE: 11/04/2024 - 18/04/2024
- [IDA 2024](#)
PLACE: Stockholm, Sweden
DATE: 24/04/2024 - 26/04/2024
- [Euromed 2024 - Desalination for clean water and energy](#)
PLACE: Sharm El Sheikh - Egypt
DATE: 06/05/2024 - 09/05/2024

- [IDRA World Congress 2024](#)
PLACE: Abu Dhabi - United Arab Emirates
DATE: 08/12/2024 - 12/12/2024

Recent Publications:

DESAL+ Project

- [Federico León Zerpa, Baltasar Peñate Suárez, Javier Roo Filgueira, J.A. De La Fuente, Alejandro Ramos Martínez, Tomas Tavares \(2023\). Study for the evaluation of the processes of reuse and recycling of reverse osmosis components and membranes in the Canary Islands and Macaronesia. Desalination and Water Treatment, 309, 171-179.](#)

E5DES Project

- [B. Del Río-Gamero, Ophelie Choupin, Noemi Melián-Martel, Julieta Schallenberg-Rodríguez. Application of a revised integration of methods for wave energy converter and farm location pair mapping. Energy Conversion and Management, Volume 303, 2024, pp. 118170](#)
- [G.N. Marichal, D. Ávila Prats, A. Conesa, J.A. Rodríguez & G. Iglesias. The Future of Energy in Ships and Harbors. The International Journal on Marine Navigation and Safety of Sea Transportation, 2024. Volume 18, Number 1, March 2024.](#)
- [Pedro Cabrera, José A. Carta, Carlos Matos, Enrique Rosales-Asensio, Henrik Lund. Reduced desalination carbon footprint on islands with weak electricity grids. The case of Gran Canaria \(2024\), Applied Energy, Volume 358, art. No. 122564, ISSN 0306-2619.](#)
- [Tourab, A.E.; Blanco-Marigorta, A.M.; Elharidi, A.M.; Suárez-López, M.J. A Novel Configuration of Hybrid Reverse Osmosis, Humidification-Dehumidification, and Solar Photovoltaic Systems: Modeling and Exergy Analysis. J. Mar. Sci. Eng. 2024, 12, 19.](#)
- [Montesdeoca-Martínez, F.; Velázquez-Medina, S. Integration of a Geothermal Plant in a System with High Renewable Energy Penetration for Desalination Plant Self-Consumption. J. Mar. Sci. Eng. 2023, 11, 353.](#)

- 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/>

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OUR PROJECTS



**VOLANTE
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