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Project details

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decentralised desalination approaching zero waste

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Sustainable membrane distillation for industrial water reuse and decentralised desalination approaching zero waste









New membranes and modules

Creation of next-generation membranes and modules obtained with green and readily scalable approaches





Rationally integrate the core innovative membrane and module components with energy and control systems that maximise their performance and enable the smart utilisation of renewable energy

Reuse of water



Reuse of industrial waste for production of drinking water

Benefits



Demonstrate the economic and environmental benefits associated with the implementation of the innovative membrane components

EXPECTED Impacts



New membrane materials, delivering smart solutions for greening of industrial plants



Recycling of waste streams from industrial plants to support the Zero Pollution strategy



Better materials with outstanding separation performance in terms of chemical and mechanical



Reduction of the water footprint of 10% in industrial plants for the preservation of freshwater resources



MEIODIZER will develop new MD systems and designs with disruptive energy efficiencies



The membranes will be obtained using alternative green, non-toxic, and more sustainable solvents