

## CONSORTIUM



## CONTACT

**Project Coordinator**  
ACCIONA AGUA  
[aguainnova@acciona.com](mailto:aguainnova@acciona.com)

**Communication Lead**  
Asya Al Marhubi, REVOLVE  
[asya@revolve.media](mailto:asya@revolve.media)

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# INDESAL

ENERGY-EFFICIENT &  
CIRCULAR DESALINATION

**LIFE INDESAL** tackles the challenge of supplying safe freshwater from alternative resources, contributing to fight climate change and to the shift to the circular economy. The project aims to develop and demonstrate a novel integrated and circular seawater desalination system with a low carbon footprint that produces multi-purpose desalinated water, renewable energy and resources simultaneously.

## OBJECTIVES



**Obtaining high quality freshwater** via the highly energy efficient low pressure multistage Reverse Osmosis (LMS RO) process (up to  $\sim 0.2 \text{ kWh/m}^3$ ).



**Generating renewable energy from brines** through the Reverse Electrodialysis (RED), decreasing energy requirements of the desalination process (up to  $\sim 0.1 \text{ kWh/m}^3$ ).



**Recovering resources from brines** using Electrodialysis with Bipolar Membranes (EDBM), reducing resource use by producing all the required NaOH and HCl for RO cleaning and pH adjustment.

