



The core research activities at the ES BEC focus on developing innovative processes for the recovery of valuable compounds from exhausted brines. This work is carried out through a multi-disciplinary approach that includes chemical modelling, constructing and testing lab-scale units of different technologies, and developing operational pilot systems for demonstration purposes. The main expertise of ES BEC is related to membrane technologies and crystallization including pressure-driven membrane processes: microfiltration (MF), ultrafiltration (UF), nanofiltration (NF), reverse osmosis (RO), forward osmosis (FO) and regenerated membranes; thermal membrane separation processes: membrane distillation (MD) and membrane contactors; electrodialysis (ED): ED metathesis, ED bipolar membranes, ED reversal; and Eutectic Freeze crystallization (EFC).

IS YOUR COMPANY OR ORGANISATION INTERESTED IN TESTING ITS BRINES? CONTACT FOR MORE INFORMATION:

Xavier Martinez
Director of Water, Air, and Soil Unit,
Eurecat



+34 620 13 59 68



xavier.martinez@eurecat.org



Eurecat - Manresa
Plaça de la Ciència, 2
08242 Manresa
Barcelona
SPAIN



ZeroBrine

🌐 www.zerobrine.eu

🐦 @zero_brine_



The ZERO BRINE project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730390.



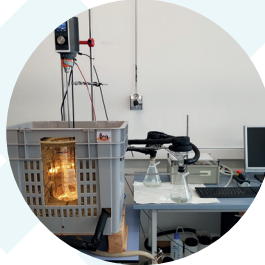
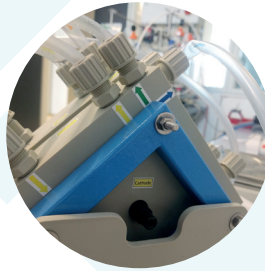
SPAIN BRINE EXCELLENCE CENTRE



The ZERO BRINE project has received funding from the European Union's Horizon 2020 research and innovation programme under grant agreement No 730390.

ANALYTICAL AND MEASURING INSTRUMENTS

- ◆ Ion Chromatography (IC)
- ◆ Inductively coupled plasma-mass spectrometry (ICP-MS)
- ◆ TOC and N analyser
- ◆ HPLC
- ◆ Gas chromatography coupled with mass spectrometry
- ◆ UV/VIS Spectrophotometer



INDUSTRIAL PILOT SCALE TECHNOLOGIES

- ◆ Ultrafiltration (UF)
- ◆ Nanofiltration/Reverse Osmosis pilot plant (NF/RO)



BENCH-SCALE TECHNOLOGIES

- ◆ Microfiltration (MF)
- ◆ Ultrafiltration (UF)
- ◆ Nanofiltration (NF)
- ◆ Reverse osmosis (RO)
- ◆ Forward osmosis (FO) and regenerated membranes
- ◆ Thermal membrane separation -Processes: membrane distillation (MD) and membrane contactors
- ◆ Electrodialysis (ED): ED metathesis, ED bipolar membranes, ED reversal
- ◆ Eutectic Freeze crystallization (EFC)
- ◆ Dissolved Air Flotation (DAF)
- ◆ Sand Filter

