

**Industrial
Wastewater**

**Resource
Recovery**

**Circular
Economy**

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

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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.



POLAND BRINE EXCELLENCE CENTRE

The core research activities at the PL BEC focus on developing novel technologies for desalination and recovery of raw materials from saline industrial waste waters. The BEC is focused on the electrodialysis (ED); pressure-driven membrane processes: nanofiltration (NF), reverse osmosis (RO); and the precipitation of magnesium hydroxide.



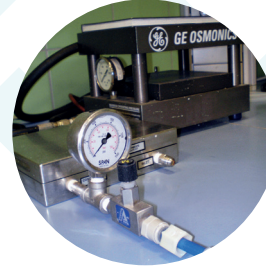
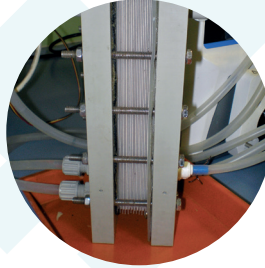
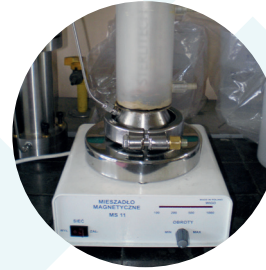
**Silesian University
of Technology**



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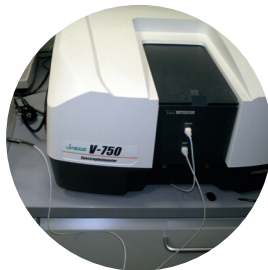
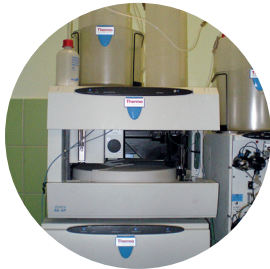
ANALYTICAL AND MEASURING INSTRUMENTS

- ◆ Ion Chromatography (IC)
- ◆ Inductively coupled plasma - optical emission spectrometry (ICP-OES)
- ◆ Inductively coupled plasma - mass spectrometry (ICP-MS)
- ◆ Ultraviolet and visible light spectrophotometry (UV/VIS)
- ◆ High-performance liquid chromatography (HPLC)
- ◆ Ultra-high performance chromatography (UHPLC)



INDUSTRIAL PILOT SCALE TECHNOLOGIES

- ◆ Ion Exchange column (IX)
- ◆ Electrodialysis (ED)



BENCH-SCALE TECHNOLOGIES

- ◆ Nanofiltration (NF)
- ◆ Reverse osmosis (RO)
- ◆ Ion Exchange columns (IX)
- ◆ Electrodialysis (ED)
- ◆ Electrodialysis reversal (EDR)
- ◆ Membrane distillation (MD)

