

Industrial
Wastewater

Resource
Recovery

Circular
Economy

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

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The core research activities at the NL BEC focus on developing a process for the separation and recovery of salts, minerals, and clean water from brines. The BEC is equipped with bench-scale and industrial pilot scale technologies that operate as part of a process train or independently, more specifically, Eutectic Freeze Crystallisation, Nanofiltration, Ion exchange, and Reverse Osmosis Filtration. In addition to technologies, NL BEC is equipped with analytical and measuring instruments to assess the physical, chemical, and microbial characteristics of brine solutions.



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.



NETHERLANDS BRINE EXCELLENCE CENTRE



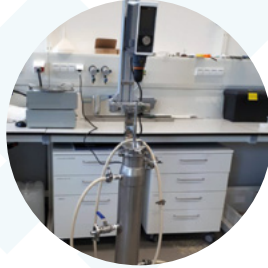
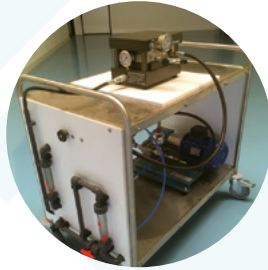
LENNTECH
WATER TREATMENT SOLUTIONS



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ANALYTICAL AND MEASURING INSTRUMENTS

- ◆ Ion Chromatography (IC)
- ◆ Inductively coupled plasma - mass spectrometry (ICP-MS)
- ◆ TOC analyser
- ◆ High-performance liquid chromatography (HPLC)
- ◆ Liquid chromatography–mass spectrometry (LC-MS)
- ◆ Gas chromatography for VFA and Biogas
- ◆ Digital Microscopes
- ◆ Isotope Analyser
- ◆ Particle Counter
- ◆ Particle Size Distribution Analyser (PSD)
- ◆ Rheometer



INDUSTRIAL PILOT SCALE TECHNOLOGIES

- ◆ Nanofiltration (NF)
- ◆ Reverse Osmosis (RO)
- ◆ Ion Exchange Column (IX)
- ◆ Eutectic Freeze Crystalliser (EFC)



BENCH-SCALE TECHNOLOGIES

- ◆ Nanofiltration (NF)
- ◆ Reverse Osmosis (RO)
- ◆ Closed Circuit Reverse Osmosis (CCRO)
- ◆ Ion Exchange columns (IX)
- ◆ Electrodialysis (ED)
- ◆ Bipolar Membrane Electrodialysis (EDBM)
- ◆ Eutectic Freeze Crystalliser (EFC)
- ◆ Anaerobic Membrane Bioreactor (AnMBR)
- ◆ Up-flow Anaerobic Sludge Blanket (UASB)

