GreenBlu

ZLD+ separation technology eliminates brine and produces water and separated salts, making zero waste desalination economically viable

Partners







(Vapor Adsorption Distillation w/ Energy Recycling)

- 1st multiple-effect adsorption cycle
- Improved energy/exergy efficiency
- 10x lower cost for ZLD brine disposal
- 10x higher revenue selling valorized NaCl, MgSO₄, K₂SO₄, and MgCl₂
- Seeded Crystallizing Ultrasonicated Evaporator/condenser (SCUE[™])
- Patents covers material, method & device

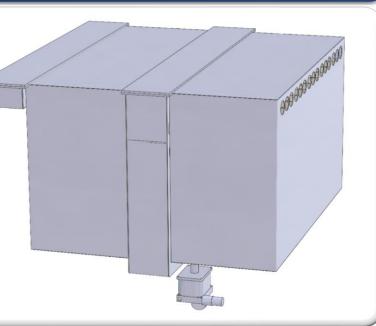
Benchtop ZLD prototype separated saturated NaCl (26 wt%) and MgCl2 brines (55 wt%) into distilled water (<0.2 ppm) and salt crystals



Patented high thermal conductivity, low-cost adsorbent









Modular ZLD+ crystallizer demo prototype pilot tests in 2022. Containerized commercial unit 2023