



U.S. DEPARTMENT OF ENERGY

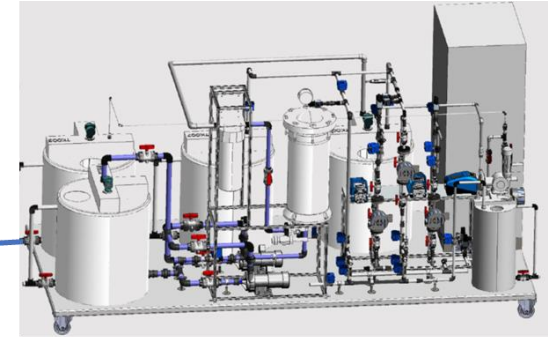
Solar NZLD

SolMem LLC



Our Innovation

- A hybrid solarthermal multi-effect membrane distillation reactor coupled with a solar concentrator and reverse osmosis
- Innovative engineering design for low-cost near zero liquid discharge using renewable energy



Our Team

- Cross functional team with deep knowledge and background in R&D and commercialization
- Leading experts in solar-thermal desalination, solar concentrating technologies, and process optimization
- Strong connections with end users and vendors

Technology Innovator, Team Lead, and Commercialization

Project Impact

- Treats any saline wastewater, reducing industry costs, freshwater consumption, & environmental impact
- Up to 99% water recovery to enable near zero liquid discharge with more than 10 times reduction in levelized cost of water compared to current thermal near zero liquid discharge technology

Design

Winston Cone Optics
Excellence in Nonimaging Optics Design
Solar Concentration Expertise

Membrane Coating and Modeling Research

Thermal Storage Expertise

Manufacturing

Fabrication and System Integration

Winston Cone Optics
Excellence in Nonimaging Optics Design

Solar Trough Supplier

Membrane Material Supplier

Demonstration

Testing facility and partners