DOE Solar Desalination Prize:

RaInsolation - Using the Sun to Make it Rain



A brine evaporation system that utilizes active control of brine temperature, brine injection rate, and air flow, to maximize treatment rate and minimize levelized cost of water for **small volume industrial brine producers** in a humidificationdehumidification desalination system.



Concentration Solar Thermal Collector

Concentration Ratio > 600 Optical efficiency = 0.82 Used to obtain flexible GOR values depending on application.

Four test sites interested in piloting our technology in Phase 3.

Target HDH Performance Metrics:

Levelized Cost: < \$18/m³ recovered water via HDH Levelized Cost: < \$9/ m³ brine minimized (evap only) Electric Energy: <15 kWh/m3 Recovery: > 50%