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 humidification-dehumidification desalination system.



Concentration Solar Thermal Collector

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

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%

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