

PRESS RELEASE



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KII/Suns River solar desalination announces a major breakthrough in application of the patented technology jointly developed with University of Texas, El Paso (UTEP). In recent tests, the technology has shown ability to process RO brine with a water yield of 93% of the incoming brine and the only other product is the salt in dry form. The process successfully handled RO brine from multiple municipal sources.

KII CEO, Hill Kemp, said, “The world is now generating millions of tons of RO brine each day and that brine is a serious disposal and environmental issue for the RO plant operators. We can offer them high water recovery from the brine and use of our several means of sequestering or selling the salt.” The technology offered features more than 99% solar energy, GOR (Gained Output Ratio) of 5.0 on that free solar energy – one of the highest efficiencies of available solar desalination processes, production of nearly 50 liters/m²/day based on collector area and options to reduce the salt content of the brine to solid salt. That GOR is nearly equal to fuel powered Multi-Stage Flash (MSF), which accounts for the largest production of desalination technology operating today. MSF also generates large quantities of waste brine.

With the growing water shortages in many areas, including the Western US, advancement of technology to produce pure water from salt water is very critical. UTEP offers several technologies to address the shortage. The KII/UTEP technology promises water free of minerals and bacteria using no internal mechanical or electronic components.

In recent tests, the solar collectors were exposed to high stress scaling conditions. Kemp added, “The unique conditions in the KII/UTEP solar module showed no indication of scale problems. Our patented technology features multiple levels of scaling prevention and control.”

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