

Solar Thermal Desalination

Clean Water/Desalination - this \$18 billion (worldwide) market is growing at a rate of 55% annually, yet much of the industry is still exclusively dependent on natural gas.¹

Artic Solar's ultra-high efficiency XCPC with natural gas backup provides the lowest cost of energy available today as well as a substantial reduction in green house gas emissions (see chart below).

Our advanced optics combined with a heat pump deliver a proven 49% reduction in thermal energy usage in a multi-effect distiller (MED) desalination system.²

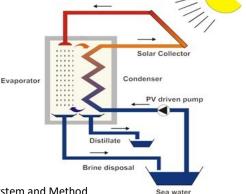
Unlike standard solar systems, the XCPC collects both direct and indirect sunlight, allowing for usage across the globe. No moving parts and a dust-repellent coating mean minimal O&M costs. Our low-profile roof-mounted systems blend into any environment.

Complete project design, engineering services & financing available.

1 International Desalinization Association Report: Technical Review and the Economics of Water Desalinization 2013 2 Pilot Demonstration of Concentrated Solar-powered Desalination, Stuber, et al. in Desalinization 2015

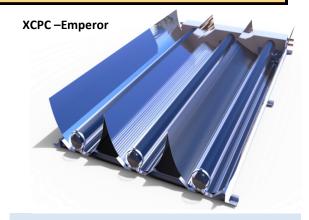






U.S. Patent # 9,383,120 B1

Solar Thermal Concentrator Apparatus, System and Method



Benefits

- a Extends system life
- a Lowest levelized cost of energy of any solar technology
- a Distillation or Evaporation
- a 30% federal tax credit including all components materials and installation labor (USA)
- a Grants & incentives available in some areas
- a Non-tracking lowers O&M costs

Savings & Green House Gas Reductions

Example: 100Kw System (100 XCPC's)

Natural Gas = 14,800 therms saved /yr

174,000 lbs. of CO₂ and 220 lbs. No_x

Electric = 300,000kWh saved per year

410,000 of CO₂ and 1,498 lbs. No_x

HIGHEST REDUCTIONS OF ANY SOLAR TECHNOLOGY ON THE MARKET!

CALL TODAY FOR A CHOTE

CALL TODAY FOR A QUOTE



