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 back-up provides the lowest cost of energy available today as well as a substantial reduction in greenhouse 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 Desalination Association Report: Technical Review and the Economics of Water Desalination 2013
2 Pilot Demonstration of Concentrated Solar-powered Desalination, Stuber, et al. in Desalination 2015

How it Works

U.S. Patent # 9,383,120 B1
Solar Thermal Concentrator Apparatus, System and Method

Benefits

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

Electric = 300,000kWh saved per year
410,000 of CO₂ and 1,498 lbs. Noₓ

HIGHEST REDUCTIONS OF ANY SOLAR TECHNOLOGY ON THE MARKET!

CALL TODAY FOR A QUOTE