



The Cool Side of Solar Thermal

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

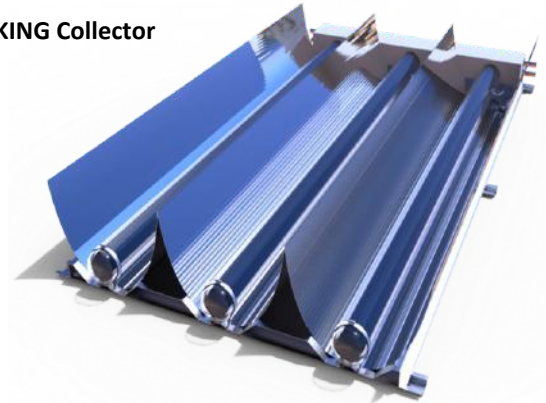
Unlike standard solar systems, the KING collects both direct and indirect sunlight, allowing for usage across the globe. No moving parts and a dust-repellent coating mean minimal O&M costs. Our low-profile roof-mounted systems blend into any environment.

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

KING Collector



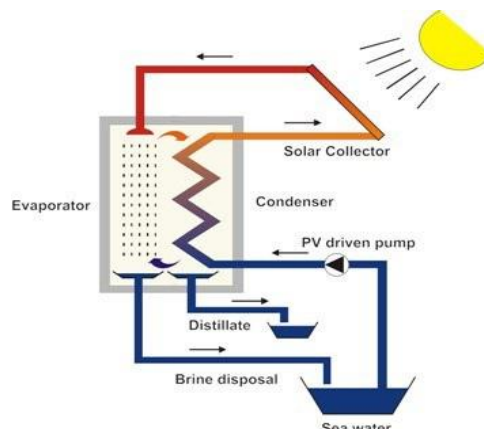
Benefits

- ⌚ Extends system life Lowest levelized cost
- ⌚ of energy of any solar technology
- ⌚ Distillation or Evaporation
- ⌚ 26% federal tax credit including all components materials and installation labor (USA)
- ⌚ Grants & incentives available in some areas
- ⌚ Non-tracking lowers O&M costs



Multi-Effect Distillation

How it Works



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

Brought to you by:



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