



The Cool Side of Solar Thermal

Solar Thermal Process Heat

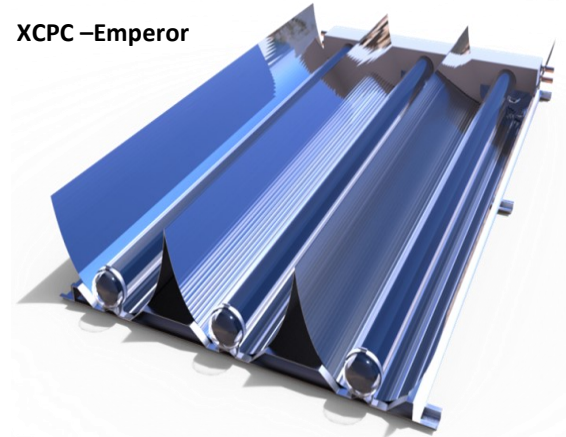
Process Heat— Over 500,000 commercial buildings use natural gas, LPG or electric boilers for the generation of heat or service hot water. Over half of those boilers are beyond the end of their useful lives. **Artic Solar’s** high temperature XCPC that operates up to 400°F will preheat any boiler and significantly reduce fuel consumption. In addition, it provides the lowest cost of solar energy available today, **permanently** removes the load from the electrical grid, as well as, a substantial reduction in green house gas emissions (see chart below).

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.

Using our patented technology, industries as diverse as manufacturing, food processing (e.g., meat, dairy, processed food and beverages), municipal waste water treatment and oil & gas extraction will be able **shift peak load off the grid** or **reduce fuel consumption up to 70%**.

Complete project design, engineering services & financing available.

XCPC –Emperor



Benefits

- ☞ Extends system life
- ☞ Lowest leveled cost of energy of any solar energy technology
- ☞ Utilizes renewable energy
- ☞ 30% federal tax credit including all components materials and installation labor (USA)*
- ☞ Grants & incentives available in some areas*
- ☞ Non-tracking lowers O&M costs

* USA only

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!**



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

Solar Thermal Concentrator Apparatus, System and Method

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