



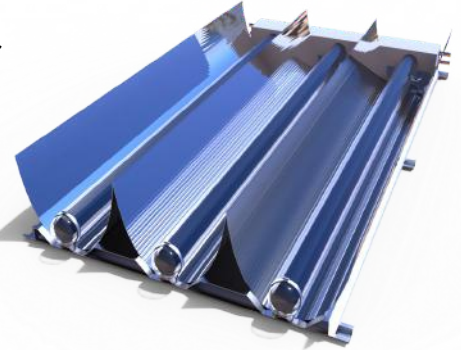
The Cool Side of Solar Thermal

# Capabilities Statement For Industry

**Artic Solar, Inc.** is a certified Veteran Owned Small Business capable of providing Solar Energy solutions to Commercial and Industrial customers with a full range of solar services including industrial process heat and high efficiency solar cooling, as well as on-site electrical generation. Artic Solar manufactures the industry-changing KING high-temperature collector, the simplest and most cost-effective source for industrial-scale / commercial solar thermal energy and steam.

**The Artic Solar Heating & Cooling Team's** experience includes more than 250 systems operating throughout the United States and the world. Our service offerings include project development, design & engineering, customer proposals, project management, installation & commissioning. We are ready to provide the solar solutions and development partnerships anywhere in the country or globally. Artic Solar maintains strategic partnerships with qualified companies to assist in the EPC and ongoing O&M contracts for speed of development and efficiency.

## KING Collector



### KING:

- ◆ Solar Ratings & Certification Corporation (SRCC) Certified
- ◆ Advanced Solar Thermal Collector
- ◆ High Temperature—Non-tracking KING Concentrating Parabolic Collectors for up to 400°F
- ◆ Works Efficiently in Both Direct and Indirect Sunlight Allowing for Installations Worldwide
- ◆ Displaces Natural Gas and Electricity
- ◆ Reduces Emissions and Demand Charges

## COMMERCIAL APPLICATIONS

### Steam, Industrial Process Heat & Hot Water

- Steam Boilers
- Absorption Chillers for Heating & Cooling
- Water Treatment/Desalination
- Evaporation of Process Waste Water
- Dehumidification/Drying
- Pasteurization/Sterilization
- Oil & Gas: Steam Injection for Extraction
- Metals and Plastics Pre-Heating
- Waste Treatment
- Thermochemical Processes
- Cooking

### Electric Generation

- On-Site Electricity Generation (using ORC Heat Engine Generators or Steam Engines)

### A/C and Refrigeration

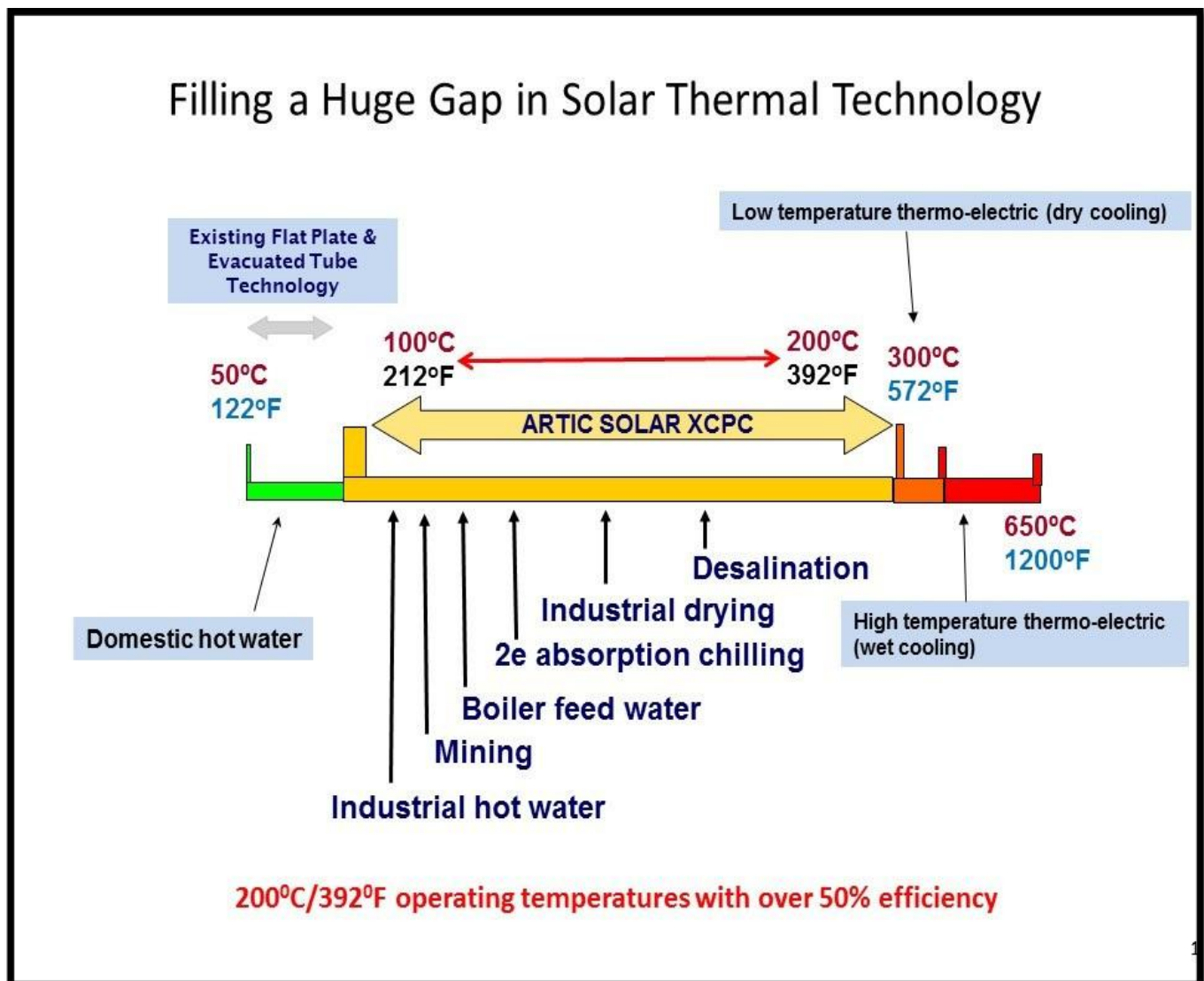
- Absorption Chillers using Single or Double-Effect Absorption Chillers with LiBr or Ammonia

## INDUSTRIES SERVED

- Manufacturing Plants (Steam)
- Brewery & Distilled Beverage Processing
- Food & Beverage Processing
- Meat & Poultry Processing
- Dairies & Milk Product Processing
- Water/Waste Processing
- Hotels/Resorts
- Multifamily Housing
- Incineration
- K-12 Schools
- Universities: Dining Halls & Dormitories
- Retirement Homes
- Hospitals
- Corrections (Federal, State & County)
- Commercial Laundries
- Agriculture

## High Temperature KING Solar Thermal Collector

The KING is a Concentrating Collector (NICC) that pairs a custom evacuated tube solar collector with an external reflector in a non-tracking, roof or ground mountable system. This combination enables the KING technology to cost effectively achieve temperatures in excess of 200°C (392°F) with up to 60% efficiency - which current market incumbents cannot attain without costly tracking. The concentration ratio is 1.4 meaning the absorber receives an additional 40% of the sun's energy allowing the collector to achieve high temperatures. The KING collector power rating is 1.5 kW. Perhaps the greatest advantage over competing high temperature solar thermal technologies (trough and linear Fresnel) that can achieve 120°Celsius and higher temperatures is the simple to deploy collector design. Aesthetics are also important- the NICC is the only high temperature collector to be configured in an extremely low profile. The KING is the best solution for building integrated and large scale high temperature heating or steam applications.



NAICS Codes: 238220, 423720, 333414  
CAGE CODE: 7JW79

SIC Codes: 1711, 5074, 3433  
Accepts Credit Cards

DUNS: 050932366  
Veteran Owned Small Business



1057 Ellis Road North #17 Jacksonville, FL, USA 32254  
www.articsolar.com Bill@articsolar.com

