

COMPLETE
SOLAR THERMAL
SOLUTIONS

Kingspan  **Solar**


Kingspan
Environmental

COMPLETE SOLAR THERMAL SOLUTIONS

Kingspan Solar offers complete solar thermal solutions for commercial, industrial, institutional and residential applications. Our technology is the original and best evacuated tube collector on the market for over 25 years. We pride ourselves on not only our world class product, but on the design, engineering, and technical service we provide our customers every time.

14 million
Kingspan Solar tubes
installed worldwide

Over
**6.3 bn
kWh**
generated by our
solar thermal
systems in the
last 30 years

25 years
Knowledge and
experience to
support our business

GOVERNMENT
INCENTIVES CAN
REDUCE OVERALL
CAPITAL COSTS

- Less state rebate
- Less federal tax credit
- Less depreciation savings

Gross system costs

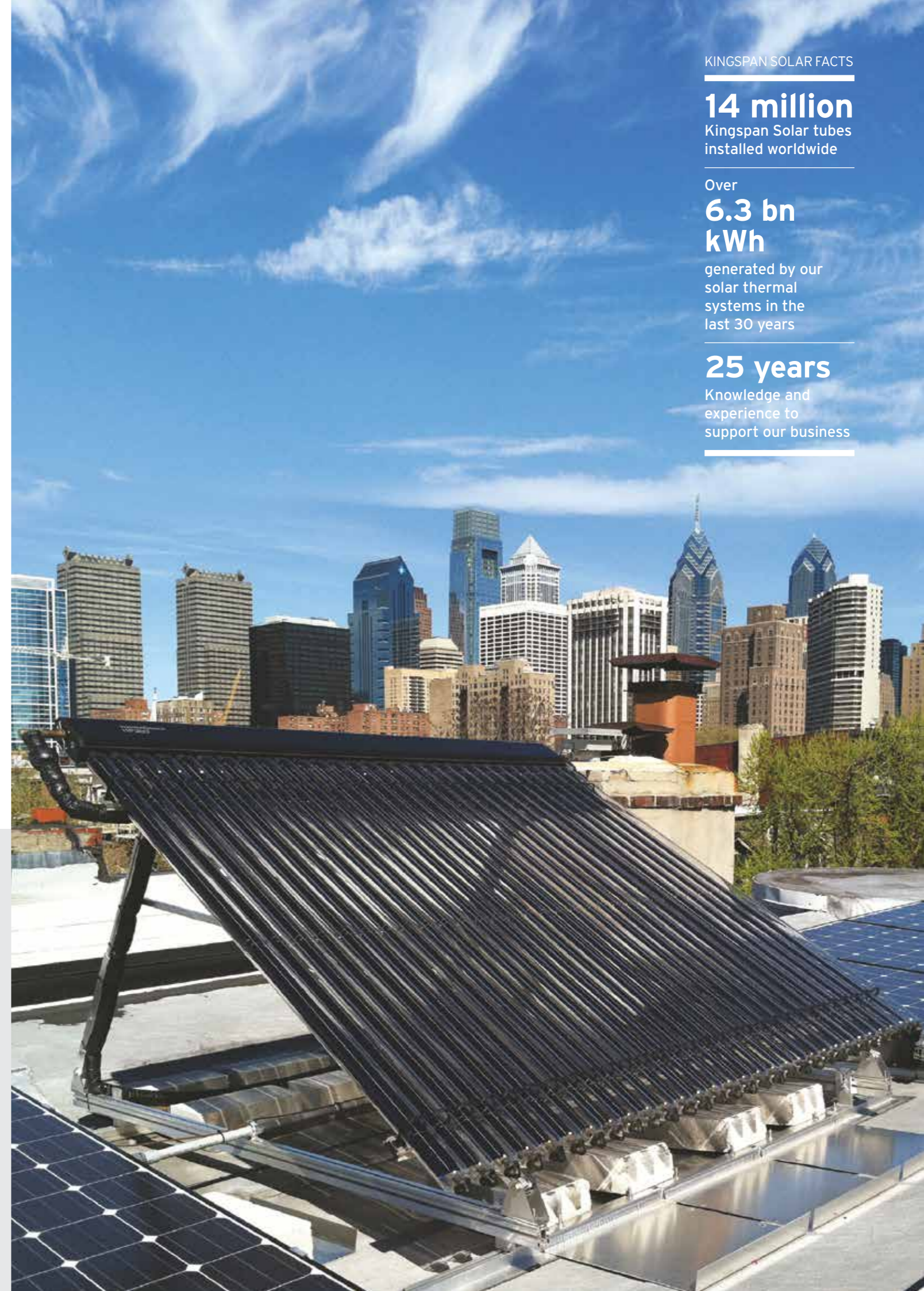
Net System costs
(up to 50% of gross)

www.dsireusa.org

DSIRE is a comprehensive source of information on state, local, utility and federal incentives and policies that promote renewable energy and energy efficiency.



Within LEED®, Kingspan's solar thermal systems are eligible under Credit 1: Optimize Energy Performance in the 'Energy and Atmosphere' category.



APPLICATIONS

“The Kingspan Solar panels have worked spectacularly well from the beginning and regardless of weather, the system remains 100% reliable. It is a real talking point within the community”

Tim Rath, Facilities Manager Mike Shellito Indoor Pool



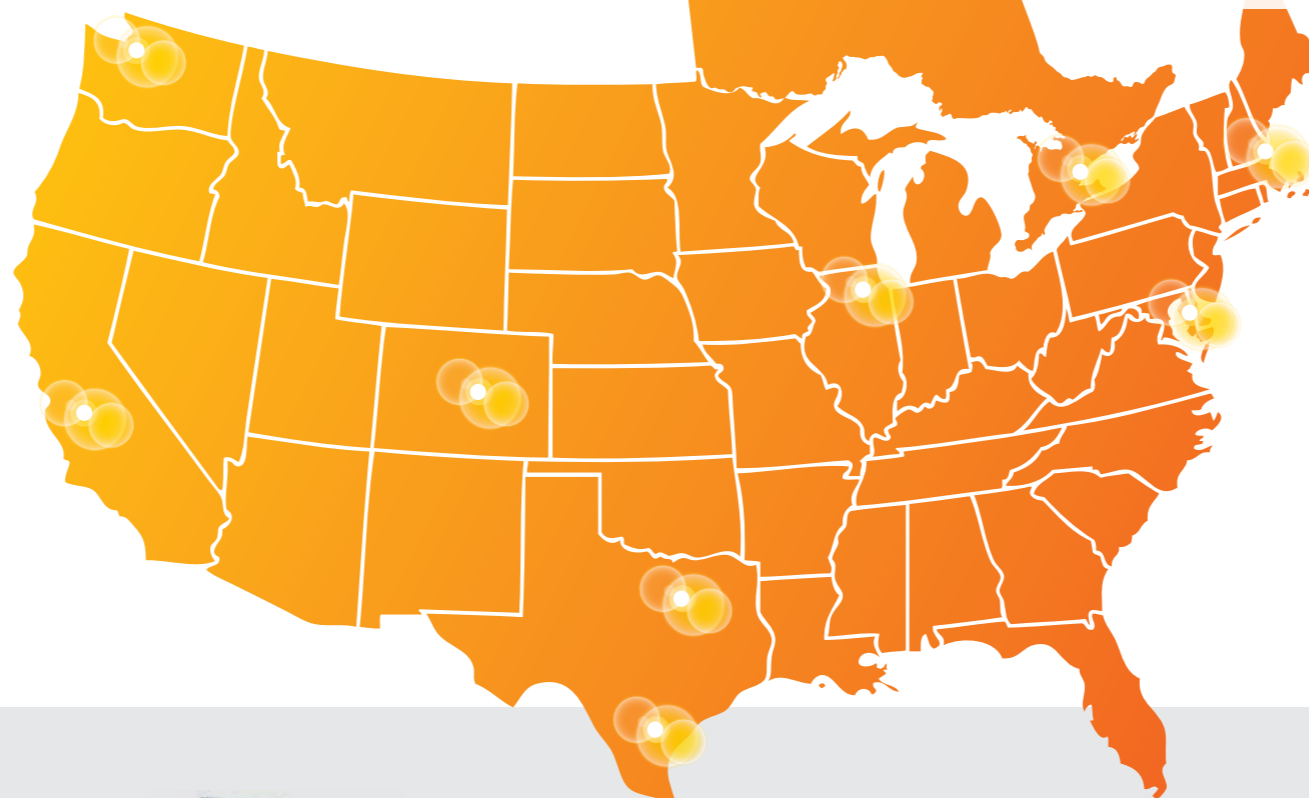
HALE'S ALES BREWERY & PUB

Location: Seattle, WA
Product: 16
Thermomax Heat Pipe
collectors
Savings: \$15,000/year



MIKE SHELLITO INDOOR POOL

Location: Roseville, CA
Product: 90 Thermomax
Heat Pipe collectors
Production: 900,000
BTUs/hour peak output



CONVENT OF THE HOLY SPIRIT

Location: Northfield, IL
Product: 14 Thermomax
Heat Pipe collectors
Savings: 2,124 therms of
natural gas/ year



SHOULDICE HOSPITAL

Location:
Toronto, Canada
Product: 131 Thermomax
Heat Pipe collectors
Savings: 56% total
energy load/ year



CLIFF HOUSE RESORT & SPA

Location: Ogunquit, ME
Product: 70 Thermomax
Heat Pipe collectors
Payback: < 6 years



GEORGE WASHINGTON UNIVERSITY

Location: Washington DC
Product: 90 Thermomax
Heat Pipe collectors



RESIDENTIAL INSTALLATION

Location:
Colorado Springs, CO
Product: 3 Thermomax
Heat Pipe Collectors
Production:
32MMBTU/year



RESIDENTIAL INSTALLATION

Location: Dallas, Texas
Product: 20 Thermomax
Heat Pipe tubes
Savings: 2,850 kWh
annual electricity
savings

THE COMPLETE SOLAR THERMAL SYSTEM

Our solar thermal packages include everything you need for your high performance hot water system



GEORGE W. BUSH LIBRARY

Location: Lewisville, TX
Product: 48 Thermomax
Heat Pipe collectors
Savings: 130,000lbs
CO2 emission



TEXAS A&M UNIVERSITY

Location: Kingsville, TX
Product: 66 Thermomax
Heat Pipe collectors
Production:
960MMBTU/year

**'Up to
80% of
hot water
free'**

U.S. Department
of Energy

ENGINEERING, SERVICE AND SUPPORT

Our professional engineers tailor solar thermal systems to the exact specifications of the individual brief and objectives.

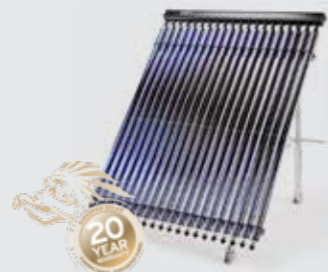
This means providing world-class design consultancy, engineering expertise and comprehensive advice from initial site visit and assessment to detailed design drawings and concepts, delivery and installation support.

KINGSPAN SOLAR SERVICE



Products

THERMOMAX HEAT PIPE COLLECTOR



Temperature limitation to prevent overheating

Superior vacuum to protect the system from outside influences

Plug and play design

Ease of installation and maintenance

VARISOL – THE MODULAR COLLECTOR



World's first modular solar thermal collector

Click-fit design

Precise sizing

Completely expandable

KINGSPAN SOLAR FLAT PLATE



Robust and durable

High performance

3 sizes for optimal placement and output

TANKS



In a solar thermal system, the tank is a vital component for the collection of energy produced by the collector. Kingspan Tribune tanks are designed specifically for solar systems to maximize their output.

PUMP STATIONS



Pump Stations contain a circulating pump that circulates the heat transfer fluid through the solar loop. For larger systems, we offer a full custom pump skids design service to fit your needs.

EXPANSION TANKS



In closed loop systems, an expansion tank is required to compensate for fluid expansion and contraction.

Different sizes available.

ASME and non-ASME rated tanks available

SOLAR CONTROLLERS



Differential Temperature Controllers are required to activate circulating pumps and motorized valves and monitor system performance. They can record data from all sensors in the solar thermal system.

THE KINGSPAN SOLAR DESIGN GUIDE

The Kingspan Solar guide contains comprehensive and detailed advice for specifiers and engineers, ranging from assessing a building's suitability and case studies to an overview of our award-winning solar collectors, as well as sizing guidelines and specification advice. The book can be requested as a free hard copy or downloaded online www.kingspansolarmanual.com





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