



ABSOLICON
S O L A R C O L L E C T O R S



ABSOLICON

Solar Heat for Industrial Processes



CLEAN THERMAL ENERGY

The world is rapidly changing. At Absolicon, we are committed to the transition to renewable heat and envision a sustainable industry.

Absolicon has a unique technology for extracting energy from the sun, providing a renewable and competitive alternative to fossil fuels.

Absolicon technology is based on 20 years of research of extracting solar energy in different forms using concentrated collectors. Our latest solar collector, Absolicon T160, supply heat and steam to a wide spectrum of processes and industrial segments.

Absolicon collectors are produced in local markets globally, by our partners operating Absolicon semi-automatized, high-precision Production line for low cost mass production of solar collectors.

Local production minimize transports and optimize the logistics economy of the solar collectors. The local production also allows local supply of material and with our streamlined collector design, the manufacturing price can be optimized by adapting the material choices to the conditions of the local market.

Absolicon T160 technology is certified with Solar Keymark and Absolicon has been awarded the Solar Impulse label, for clean and competitive solutions, twice.



[COMMITTED TO ZERO CO₂ INDUSTRY](#)

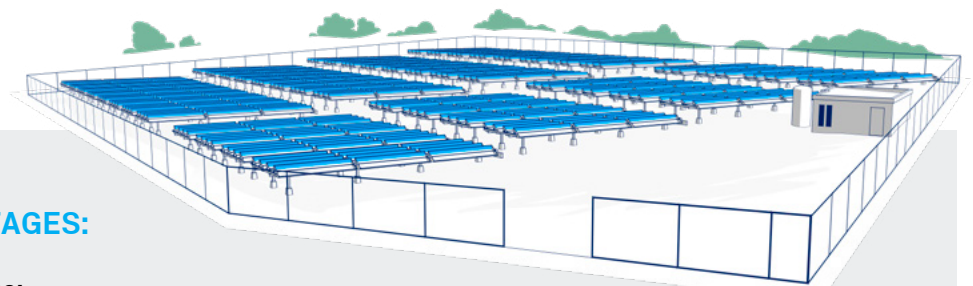


Respectful

Committed

Visionary

[LEARN MORE ABOUT ABSOLICON BUSINESS CONCEPT](#)



SOLAR HEAT ADVANTAGES:

- **Reduction in CO₂ emissions:**
Meet your sustainability goals in the most cost-effective way.
- **Reduction in fuel cost:**
Integrating solar heat replace the total cost of current fuel including the fuel cost, fuel transportation and cost of operation & maintenance of fuel boiler. It will also eliminate fuel and CO₂ emission taxes.
- **Energy security for industry:**
The fuel prices are prone to rapid changes, which can negatively affect the industry revenues. Thus, solar energy provide sustainable heat, ensuring energy security for industries.

CERTIFIED SOLAR TECHNOLOGY

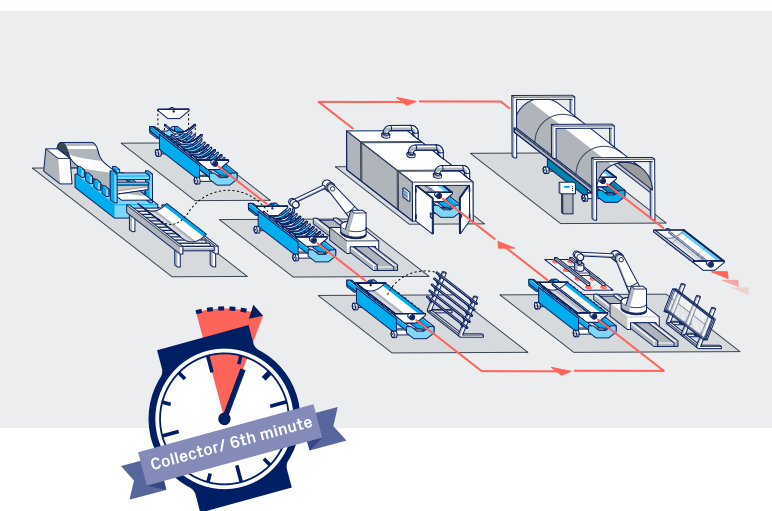
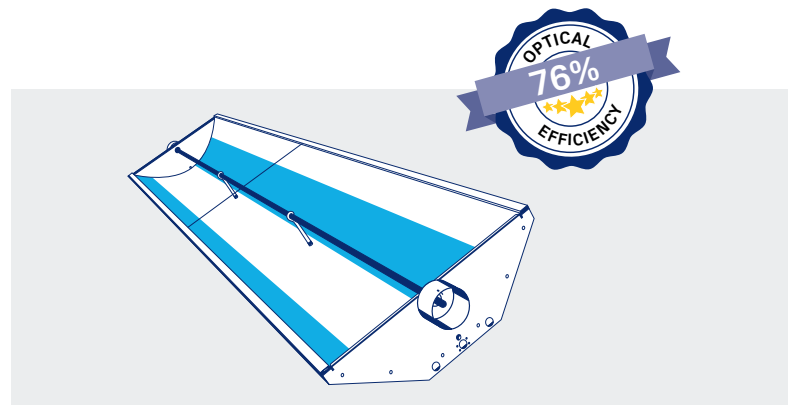
T160 Solar Collector

Medium sized parabolic concentrator providing process heat up to 160°C and steam up to 8 bar.

- Industrial process energy supply
- 160°C heat, 8 bar steam
- 76 % optical efficiency
- Solar keymark certification
- 25 year lifetime, 5 year hardware warranty



[LEARN MORE ABOUT T160 SOLAR COLLECTOR](#)



Production Line

Absolicon has designed a semi-automatized, highprecision production line to be operated by production partners worldwide for low cost mass production of the T160 Solar collector.

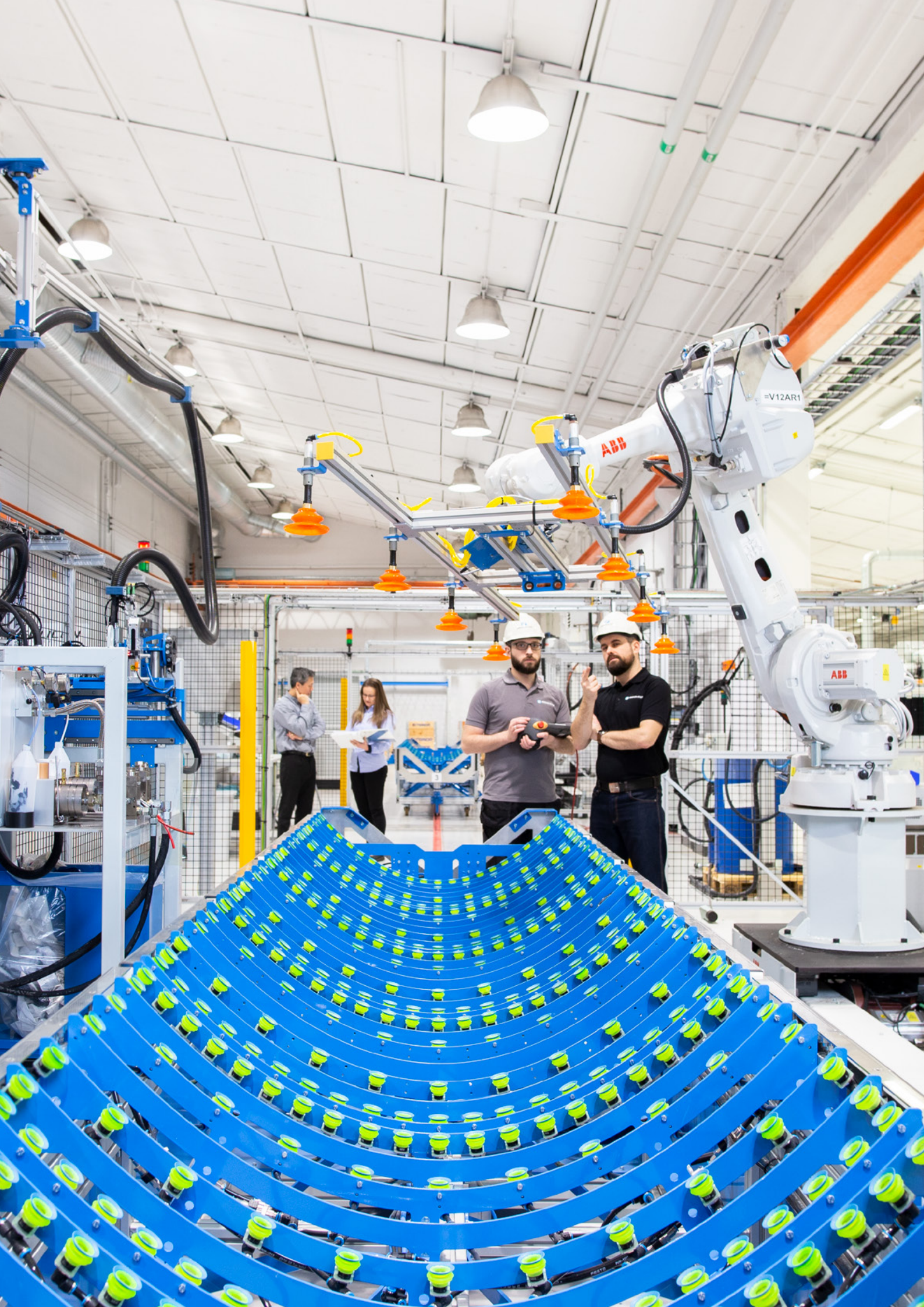
- 100 000 m² annual production
- 50 MW /year
- 1 collector finished every 6 minutes
- ABB Robotics
- Siemens control system



[LEARN MORE ABOUT PRODUCTION LINE](#)

Optimized and patented materials and components





COMPETITIVE SOLAR HEAT

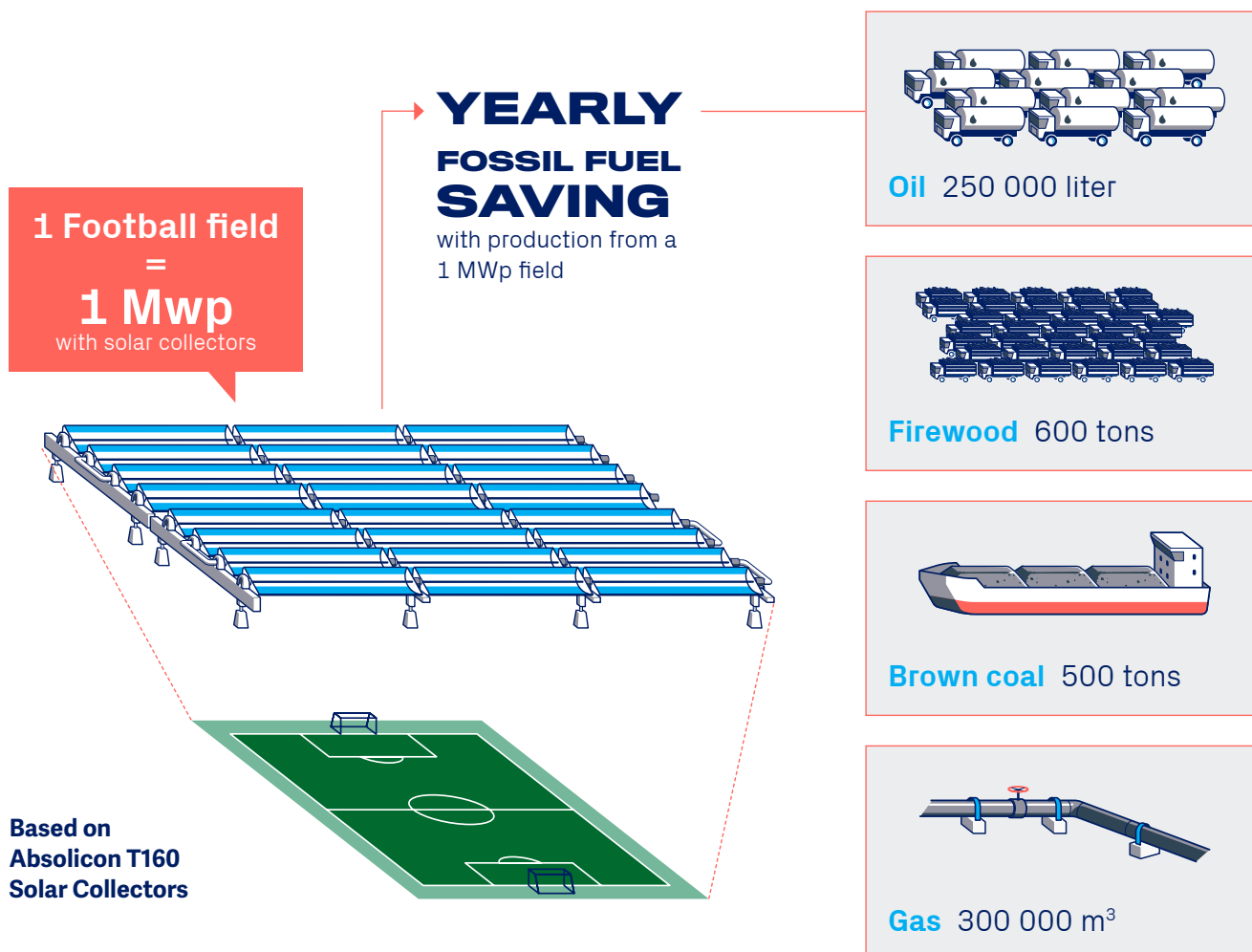
We help industries make the change from fossil fuels, providing a competitive and clean heat solution using solar thermal resources.

Absolicon solar thermal solutions ensure energy security for industries, reducing CO₂ emissions and fossil fuel dependency.

Our latest solar collector is the Absolicon T160. With 76% optical efficiency⁽¹⁾ and an operational temperature of up to 160 °C, the T160 supply heat and steam to a wide spectrum of processes and industrial segments.

The investment in Absolicon solar thermal is made competitive by local production, limiting transport costs and adapting material choices to the conditions and supply of your local market.

Our production partners, located all over the world supply the market with T160 Solar collectors. The collector price is optimized by its streamlined design that allows mass production in Absolicon semi-automated Production line, producing one collector every 6 minutes.



(1) In tests at The Swiss Institut für Solartechnik (SPF) in Rapperswil Absolicon T160 Solar collector has shown to have an efficiency of 76.6 %. The highest number ever achieved for a small parabolic trough.

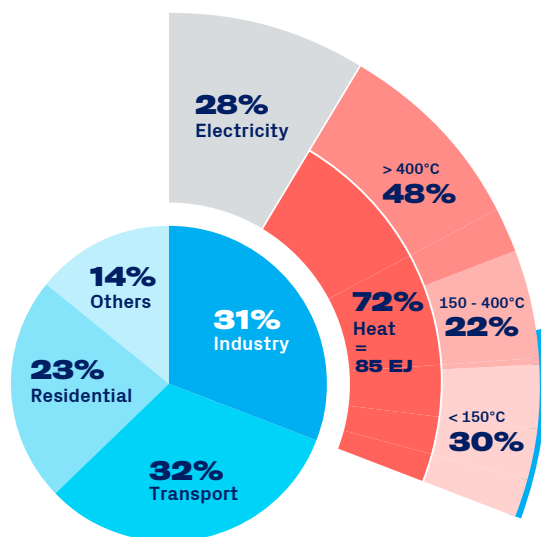
TRANSFORMING HEAT SUPPLY, MAKING REAL IMPACT

Half of society's energy usage is heat. Heat is used to make our everyday products, such as clothes, dairy products, drinks and food.

The industrial sector accounts for about 31% of the world's total energy consumption. Industries generally rely on an internal energy production, most typically steam boiler systems for heat production.

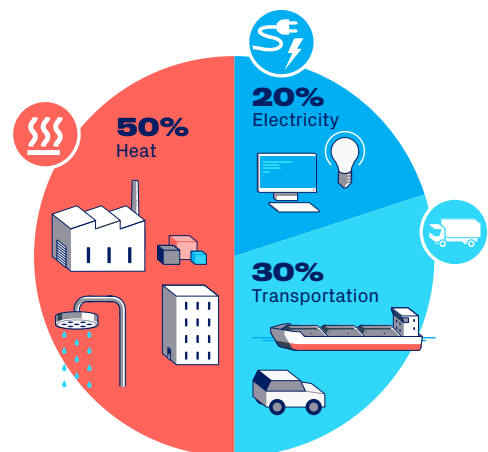
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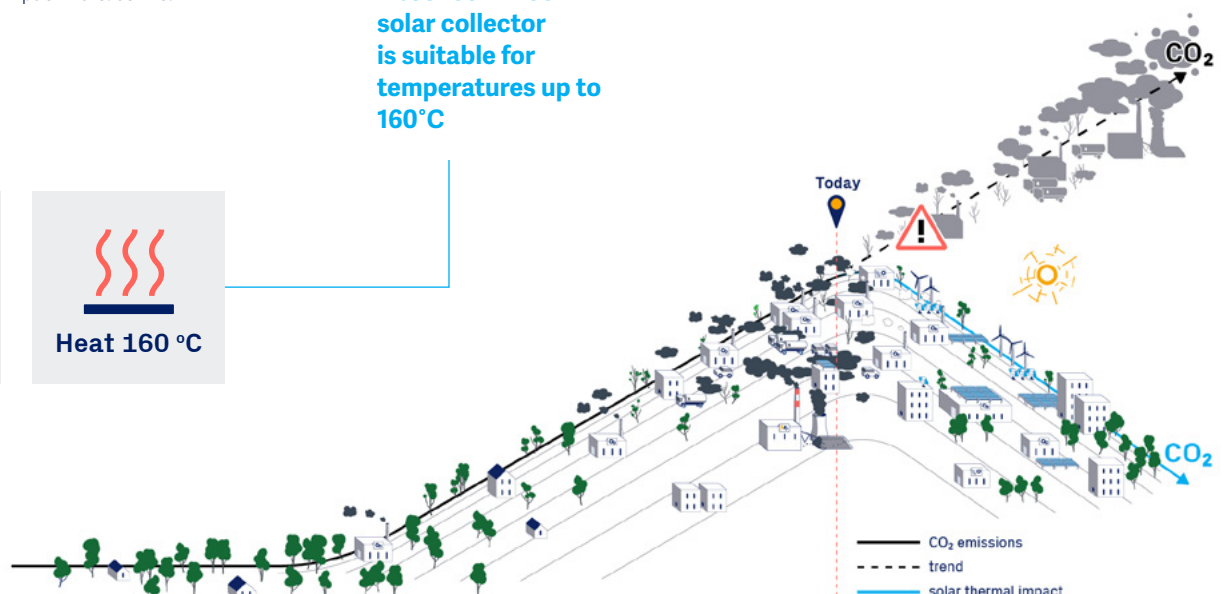
Industrial Energy Demand

Total final energy consumption 2018: 382 EJ.
Source: IEA / IRENA.



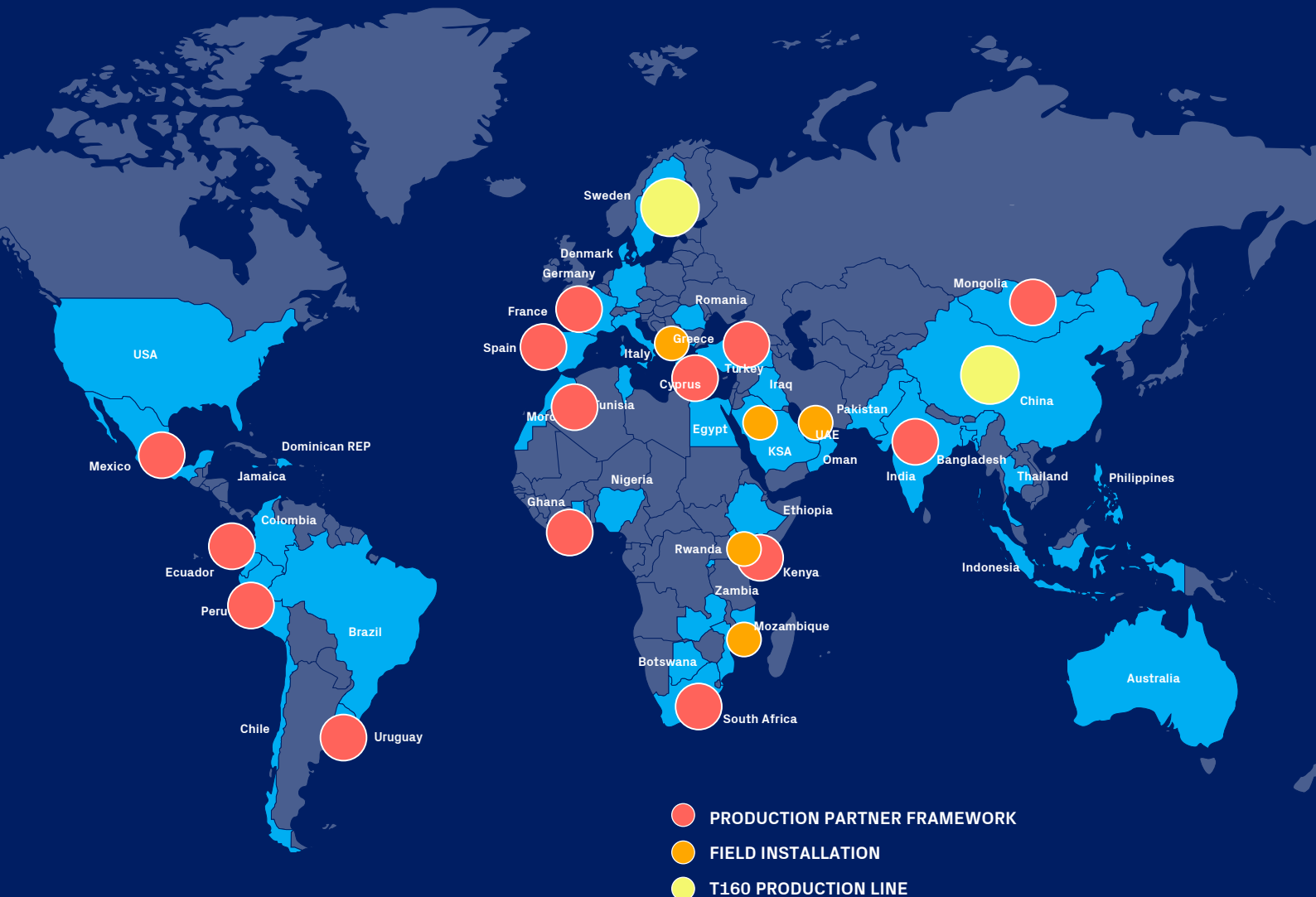
Source: IEA / IRENA.

Absolicon T160 solar collector is suitable for temperatures up to 160°C





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At age eleven Absolicon founder and CEO Joakim Byström drew his first solar concentrator.

The company Absolicon was established in 2005 as a research and development company in solar technology. Today, Absolicon is a business company with more than ten years of operational experience from over 6000 sqm installed area in 20 installations worldwide.

Absolicon T160 technology is certified with Solar Keymark and Absolicon has been awarded the Solar Impulse label twice.

By developing, manufacturing and selling solar energy systems that generate renewable energy in various forms, we are helping to solve the world's energy problem.

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