



The Coolest Idea Since The Indroduction  
Of Solar Energy!

# SOLITERM Group General

## Our Company



SOLITERM Group was founded in 1999 and has realised more than 30 projects worldwide. With German engineering and technology, and the first and only fully automated production line for parabolic trough collectors, SOLITERM has become a main producer and supplier for this technology.

## Products and services



We offer custom made technological solutions that offer a renewable and carbon footprint friendly energy source, for a wide variety of industrial processes. Our PTC technology transforms the sun's energy into a variety of energetic outputs, so that conventional energy systems can be used as back-up. This offers a higher independence from fossil fuels and the possibility of high energetic and monetary savings. We offer concept developments, energy consulting, Parabolic Trough systems (installation and maintenance), and even a variety of financing possibilities (contracting, leasing etc.) for customers from a multitude of industry sectors.

## Partners & Suppliers



We work together with a varied spectrum of German and international suppliers. Since 2020, E.ON (one of the largest German energy suppliers) has become a strategic partner to the SOLITERM Group. This partnership facilitates flexible financing possibilities, and at the same time supports us in our services of project development, instalments, commissioning and maintenance.

## Our References



We have worked on projects together with a multitude of internationally renowned companies, such as Nestlé, PepsiCo, Lindt & Sprüngli, Mayr-Melnhof Graphia, Fraunhofer Gesellschaft, Develey, METRO, Novartis, E.ON, STAWAG and many more.



# Parabolic Trough Collectors (PTC)



## Innovative solar thermal Technology

First worldwide AI-based fully automated production. Online monitoring via SCADA systems for optimal energy usage



## Flexible mounting area

Ground installation or roof and facade integration are possible. The system is module-based, so it can be expanded at any time if needed



## More efficient than common solar thermal technology

Due to the automatic sun-tracking, a higher energy production can be gained than with other common collectors (up to 500-700 kWh/m<sup>2</sup>)



## Broad spectrum of use (Process-cooling/heat, steam, water)

With our PTC we can offer process and ambient cooling and heating, steam, sludge drying, electricity and desalination. All of these can be achieved with different temperature and pressure levels

# Advantages



## Energy cost savings

High energy savings, due to the use of renewable energy; Pay less for fossil fuels (gas, electricity) due to the reduced consumption. More financial capital useable for other purposes



## Can be integrated in existing systems

Can be easily integrated into existing systems with boilers, ventilation systems, compression and absorption chillers, CHP units, CHP plants, heat pumps and other conventional technologies



## CO<sub>2</sub>-reduction for environment friendly processes

High CO<sub>2</sub> savings allow your processes to be more environmentally friendly and to reduce the Carbon Footprint. This can help reach your own and global climate goals.



## Fast amortisation of investment costs

Reacting to the rising prices of fossil fuels and the already existing and upcoming CO<sub>2</sub> taxes and trading, by increasing your independence and reducing your emissions. This leads to early return on investment and large savings.



# Industry specific data



## High production flexibility

Our PTC offer a wide spectrum of outputs: process and ambient cooling and heating, steam, sludge drying, electricity and desalination or any combination of those products.



## Customised to your requirements

With different collector sizes and heat mediums, we can offer very flexible solutions in regards to your needs in outputs, temperatures and pressure levels.



## Industrial applications

Industry	Process	Avg. temperature
Foods and beverages	Drying Washing Pasteurizing Boiling Cleaning Preheating	30 °C – 90 °C 40 °C – 80 °C 80 °C – 110 °C 95 °C – 105 °C 140 °C – 150 °C 40 °C – 60 °C
Textiles	Washing Bleaching Dyeing	40 °C – 80 °C 60 °C – 100 °C 100 °C – 160 °C
Chemicals	Boiling Distilling Other chemical processes	95 °C – 105 °C 110 °C – 300 °C 120 °C – 180 °C
General industry	Preheat boiler feed water Production site heating Process-cooling	30 °C – 100 °C 30 °C – 80 °C Down to – 60 °C