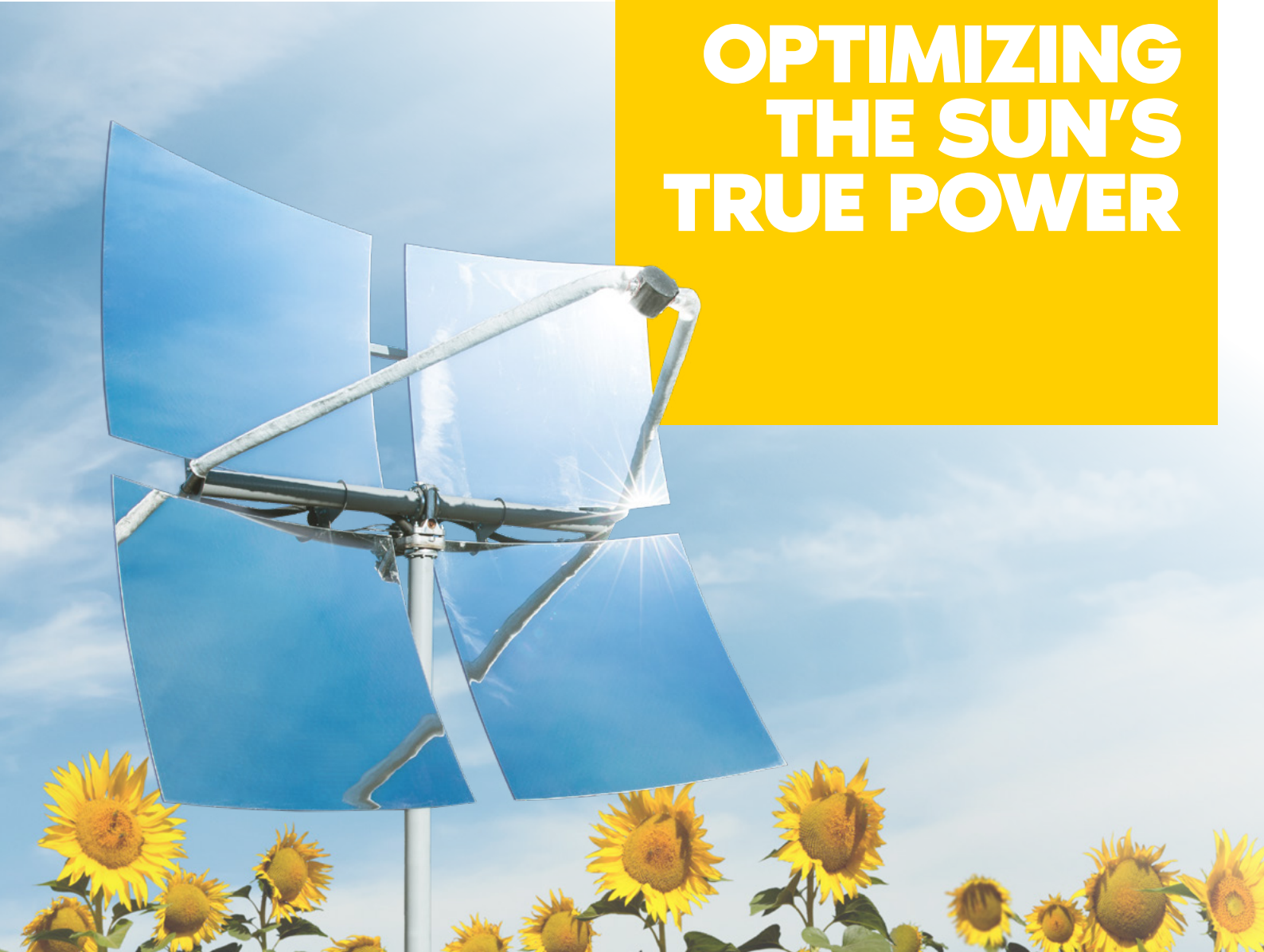




TrueSolarPower.com

Reinventing
renewables

OPTIMIZING THE SUN'S TRUE POWER



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Who we are

Thermal Cooling Technology is TCT, a European company based in Spain. Our experts have more than 30 years experience in R&D projects, solar energy and industrial engineering.

Specialising in solar thermal energy, our concentrating solar dish complements process heat in industries and heating/cooling systems.



“FINALLY, TRUE SOLAR POWER WITHIN YOUR GRASP”

Introducing **TCT RED**

TCT RED is an intelligent solar dish that concentrates sunlight and transforms it into heat energy, for low heat (<100°C) and medium heat (<250°C) applications. Thanks to our revolutionary solar concentrator design, **TCT RED achieves a much lower payback period**, compared to other current thermal energy systems.

Supplement your existing heat generating system, **drastically saving in energy costs.**

Key applications are industrial heat processes (textile, food, petro-chemical, cleaning and sterilisation) and residential heating (hot water, heating/cooling).

Benefits



Drastically save on your energy costs, ensuring a short payback period.



Reduce CO₂ emissions, by reducing dependency on fossil fuels.



Safe and intelligent, self-steered and programmable broad operating temperature. It requires minimal maintenance and folds back to safe position when exposed to dangerous temperatures, high wind conditions and at night. Mirrors can be dismounted in case of extreme weather conditions (hurricanes, snow, blizzards, etc).



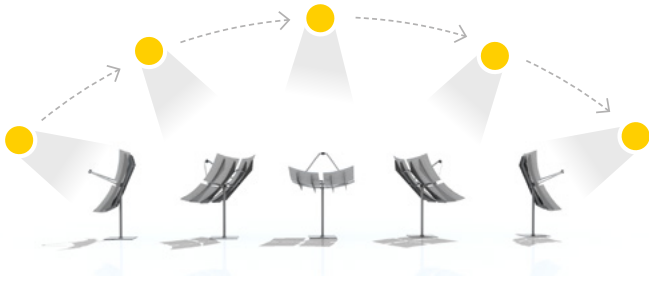
Easy to install and scalable, its weight and dimensions allow for it to be installed easily and quickly. It can be scaled up to the user's needs.

**“TCT RED:
THE MOST
SEAMLESS
AND EFFICIENT
SOLUTION
POWERED BY
THE SUN”**





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Why it works

TCT RED's 360° solar tracking system allows you to capture all the power of the sun, from the sun's first rays in the morning, till the last rays at sunset.

Thanks to its revolutionary concentrating system, **TCT RED offers high efficiency** regardless of external ambient temperatures or internal fluid temperatures.

It's **lightweight and easy installation** requirements allow **TCT RED** to be installed in almost every type of surface.

Thanks to its tracking, solar concentration and surface installation possibilities, **TCT RED** produces up to 4 times more energy than traditional flat panel collectors.



TCT RED

These unique applications make **TCT RED** the smart renewables investment that offers:

- **360° Solar tracking:** for optimal solar exposure.
- **Concentrating system:** offers high efficiency regardless of external/internal temperature.
- **Installation convenience:** needs up to ¼ of the space that flat panel collectors require.
- **Versatility:** produces temperatures unattainable by comparable, similar-priced systems.



**We
optimize
savings where
you need it
most.**

Why solar heat?

Most industrial and heating/cooling processes use heat (up to 250°C). 85% of this heat is generated by **burning fossil fuel**.

The fuel required for this process can be up to 74% of your total energy costs.

Generally, this heat is transmitted for its final use through water or other fluids with thermal capacity.

TCT RED is a solar energy solution that produces heat, transfers it through liquids and applies it to these processes.

By using **TCT RED**, you will:

- **Consume less fuel**
- **Reduce your CO₂-footprint**
- **Extend the lifespan of existing heat systems**

Energy demand

— Industrial:

32% of world energy demand is industrial.

74% of this demand is for process heat.

— Residential:

24% of world energy demand is residential.

60-70% of this demand is for heating and hot water supply.

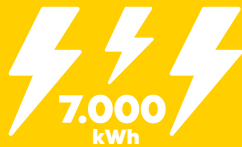
Yearly savings per TCT RED dish*



800 liters of diesel fuel.



780 m³ of natural gas.



7.000 kWh of electricity.



CO₂ retained by
40 trees

**Reduces 20,100 Kg of CO₂
emissions; equivalent to the
CO₂ retained by 40 trees.**

*Based on Madrid, Spain readings.





SUSTAINABLE DEVELOPMENT GOALS

Up to 8 sustainable
development goals are
achievable by using TCT RED.



Certificates



Case studies

renfe ●

Location: Madrid (Spain).
Units installed: 4.
Functionality: Hot water & space heating for railway maintenance facilities.
Primary Energy Source: Natural gas.
Average fuel consumption savings: 30%
Payback period: ±4 years.



covex ●

Location: Colmenar Viejo (Spain).
Units installed: 8.
Functionality: Process heat (50°C-90°C) for pharmaceutical industry.
Primary Energy Source: Natural gas.
Average fuel consumption savings: 35%
Payback period: ±3 years.



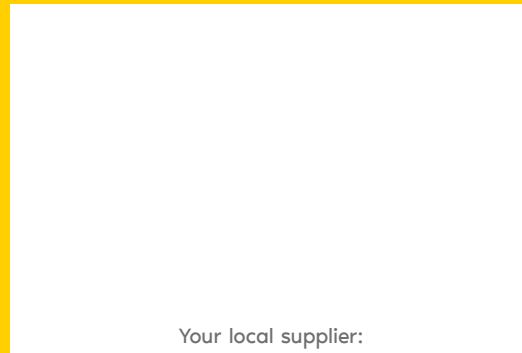
Fontecruzhoteles ●

Location: Ávila (Spain).
Units installed: 12.
Functionality: Hot water, space heating & spa for the hotel.
Primary Energy Source: Diesel.
Average fuel consumption savings: 40%
Payback period: ±3 years.





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Your local supplier:

ASSOCIATES:



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