

Engineered in Europe.
Made for the World.



REVOLUTIONARY

PHOTOVOLTAIC-THERMAL MODULES (PVT)

14/09/2023

Your Energy Alternative

100% Independent

100% Green



About us **WHO WE ARE**

Sunmaxx PVT

- Leading global developer and producer of PVT system that are suitable for mass production
- Combining solar and automotive expertise
- Vision of completely climate-neutral residential, office, and industrial buildings
- Active in Dresden since 2021

Dr Wilhelm Stein, CEO



Dr Stein is a seasoned Executive with record of achievement in Cleantech and Semiconductor industry. He is a solar veteran with almost 20 years in the industry.

[linkedin.com/in/wilhelmstein](https://www.linkedin.com/in/wilhelmstein)





About us OUR STRONG SUPPORT

Our Investors



Planners



R&D Cooperate Partners



Wholesalers & Installers



Heat pump provider



Other partners





Photovoltaic thermal modules **THE TOTAL ENERGY SOLUTION**

FOSSIL INDUSTRY

Gas firing
Efficiency
ca. 30 %



**Combined
heat and
power
(CHP)**
Efficiency
> 60 %

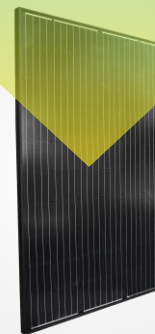


RENEWABLE INDUSTRY

**Photovoltaic
modules
(PV)**
Efficiency
ca. 20 %



**Photovoltaic
thermal
collectors
(PVT)**
Efficiency
> 80 %





Photovoltaic thermal modules **PVT VS PV** (1 MW installation)

Photovoltaic module (PV)

Efficiency
≈ 20 %

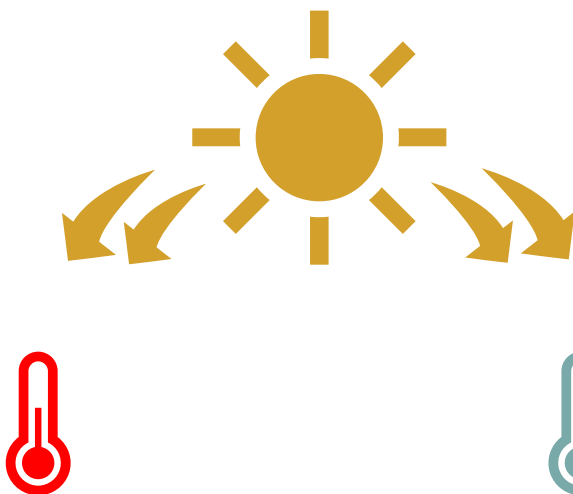
Electrical yield
1,000 MWh/year

Thermal yield
0 MWh/year

CO₂ savings
500 t/year

Conversion factor Germany
Electrical: 0,50 kg CO₂/kWh, thermal: 0,25 kg CO₂/kWh*

* Note: Conversion factor given for natural gas, however in reality it is much higher, since there is additional leakage during exploration and transport leading to direct CH₄ emission (80 x stronger climate gas than CO₂)



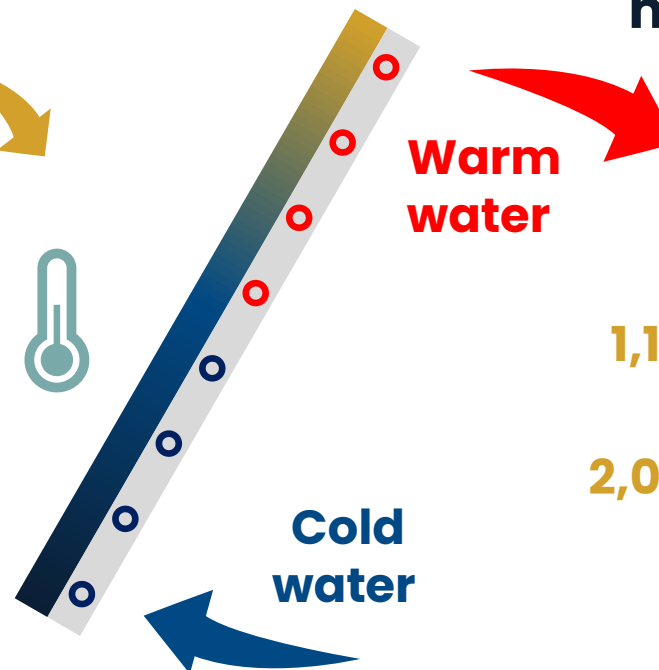
Photovoltaic thermal module (PVT)

Efficiency
> 80 %

Electrical yield
1,100 MWh/year

Thermal yield
2,000 MWh/year

CO₂ savings
1,050 t/year

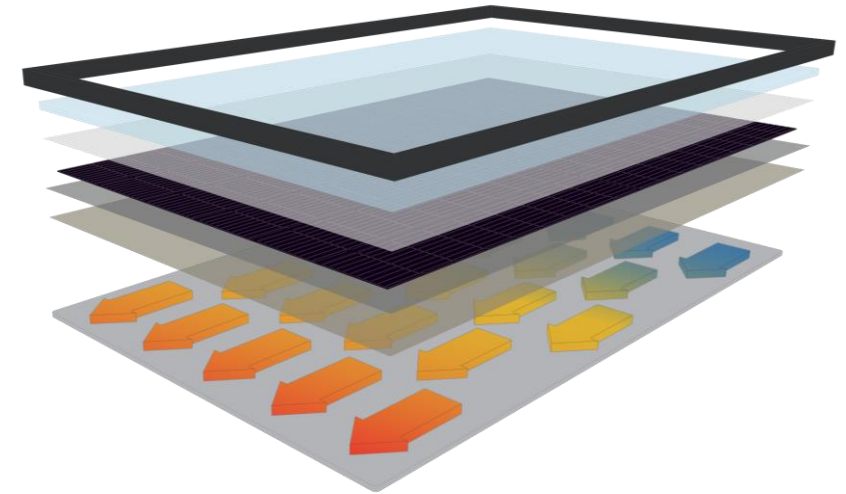




Our technology
COOPERATION WITH MAHLE



MAHLE
World Leading
Electric Car Cooling Tech



First PVT-Module
Integrating Automotive
Thermo-Management Heat Converter

A photograph of two men in a factory setting, leaning over a large, dark, rectangular solar panel. The man on the left is older, with grey hair, wearing a black long-sleeved shirt and white gloves. The man on the right is younger, with brown hair and a beard, wearing a light green long-sleeved shirt and blue jeans. They are both looking intently at the panel. The background shows industrial equipment and a clean, well-lit factory environment.

PV Magazine International
March 2023

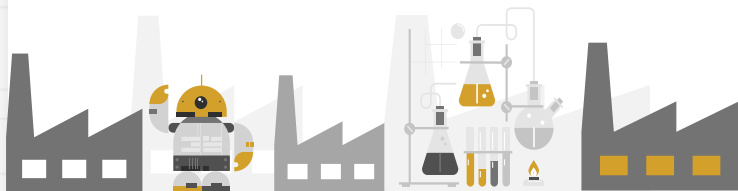
“ German
manufacturer
achieves 80 %
overall efficiency
with new PVT
solar module ”



Our customers **MARKET SEGMENTS**

COMMERCIAL & INDUSTRIAL

Replacing
**Fossil fuels on
industrial production sites**



Industrial customers
with technical planners



DISTRICT HEATING

Replacing
**Fossil-based high-
temperature heating network**



High-level industry consortium
low-temp. district grid solutions



STADTWERKE
STUTTGART



RESIDENTIAL

Replacing
**Air heat pumps with
high electricity demand**



Wholesaler
to small installers



Wagner & Co



Our customers **BUILDING RENOVATION**



- Neighbourhood redevelopment in Regensburg
- 1,5 GWh/year electricity
2,1 GWh/year heat
- 352 pcs PVT, 141 kWp
- Complete renovation of buildings and heating systems
- Heat networks 4.0
- **Winner of German Building Award 2022**



Roadmap to large scale **OUR WAY TO MASS PRODUCTION**



< 1 MW



50 MW

- 240,000 m²
120,000 pcs
- €40m sales
- SOP 12/23



250 MW

- 1.14m m²
570,000 pcs
- €200m sales
- SOP 07/25



550 MW

- 2.50m m²
1.25m pcs
- €350m sales
- SOP 08/26

3 GW

- 15m m²
17.5m pcs
- > €1bn sales
- SOP tbd

2022

Lab stage

2023

**Small scale
mass production**

2025

Medium scale
mass production

2026-27

Large scale
mass production

2028-30

Large scale mass pro-
duction for global makets

Note: German market scenario PV: 20 GW 2027 (BMW), Worldwide PV: 255 GW 2024 (Solar Power Europe)

14/09/2023

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Subject to NDA, confidential



Efficiency Beyond Limits

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100% Green

100% Independent

Decarbonisation? It's Sunmaxx

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