




PVT

**HEAT AND POWER
FROM ONE MODULE.**



-  Heat
-  Power
-  Hot Water
-  Cooling

... from Renewable Sources.



” Sunmaxx makes the energy transition attractive for everyone. Our hybrid modules supply electricity and heat at the same time. They enable an easy switch to renewable energies and pay for themselves faster than any fossil fuel alternative. We stand for green, affordable heating and cooling and are driving a climate-friendly, competitive future.

”

Dr. Wilhelm Stein
Chief Executive Officer at Sunmaxx PVT GmbH

The Journey of Sunmaxx

2021

Dr. Wilhelm Stein founds Sunmaxx

based on the idea of combining solar technology with thermal management from the automotive industry.



2023/24

Opening of production facility in Ottendorf-Okrilla near Dresden

Sunmaxx opens the world's largest production facility for low-temperature PVT modules.



2024

Ramp-up of Sunmaxx

Establishment and continuous expansion of a specialized partner network.



2024/25

Sunmaxx supplies the modules for both Germany's and Europe's largest PVT plants

With over 1,130 and 1,000 PVT modules respectively, Sunmaxx decarbonizes an innovative sports arena and an automotive production facility.



2025

Sunmaxx is the world's leading PVT manufacturer

Sunmaxx operates the world's largest and most advanced PVT production facility with an annual capacity of 120,000 hybrid modules, scalable by a factor of 5.

REFERENCES – Residential/Private



Single-family Home

Existing building, 1965, partially renovated

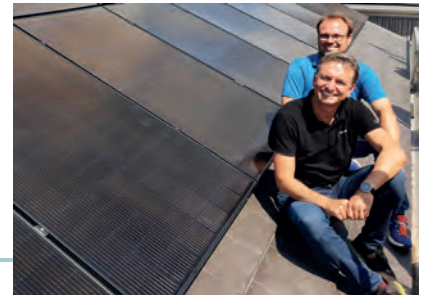
- PVT system operating since 2024
- Sole heat source for brine-to-water heat pump
- Space heating (radiators, underfloor heating)
- Domestic hot water and pool heating
- Number of modules: 32 (64 m² PVT area)



Private House

New building, 2023

- PVT system operating since 2023
- Number of modules: 20 (40 m² PVT area)



Residential Building

Old mansion, existing building

- Under historic preservation, steep slate roof with dormers
- PVT system operating since 2024
- Number of modules: 22 (44 m² PVT area)

REFERENCES – Industry/Commerce



Europe's largest PVT system

Sports Arena Vienna

New building, 2025

- Most advanced Sports Arena in Europe regarding energy and building standards
- PVT operating since 2025
- Approx. 20,000 m² of heated space
- 100 % climate-neutral heat and power supply
- Number of modules: 1,134 (2,268 m² PVT area)
- PVT used as primary heat source and for ground probe regeneration
- Reduction in investment costs by more than 50%
- Honored with the Austrian Solar Prize

Automotive Plant

Existing building, 1980s

- Almost complete Decarbonization of the production facility
- Significant investment cost reduction (due to ground probe regeneration, savings of more than 50% in drilling meters thanks to PVT)
- Number of modules: 1,000 (2,000 m² PVT area)
- 2nd place at the DENA Energy Efficiency Award



Germany's largest PVT system



Office Building

Existing building, approx. 1990

- PVT system operating since 2023
- Feed-in of surplus heat from summer months into geothermal probes
- Dual use of probes as heat suppliers and seasonal storage
- Maximum heat pump efficiency by increasing the annual performance factor with PVT
- Number of modules: 36 (72 m² PVT area)

REFERENCES – Energy/Residential



Municipal Low-temperature Grid

Existing building, 1996

- PVT system operating since 2024
- Multi-purpose hall in historic city centre
- Municipal heating network with 3 GWh heat demand
- Combined with seasonal storage (geothermal probes) and brine-to-water heat pumps
- Number of modules: 156 (312 m² PVT area)

Apartment Building

Existing building, 1905










- PVT system operating since 2024
- 5,000 m² of heated usable space
- PVT as a heat source for brine-to-water heat pump
- Dual use for geothermal probe regeneration
- Number of modules: 66 (132 m² PVT area)



Our Product



Hybrid Module PX-1 The PVT Module with Automotive Technology.

-  Combines photovoltaic (PV) und thermal (T) energy supply in one hybrid module.
-  5 to 10% more PV gain from solar radiation due to cooling of the module.
-  An aluminum heat exchanger on the rear side gains thermal energy from sun and ambient air.
-  Thermal energy gets transferred to a brine-to-water heat pump via heat transfer fluid.
-  Suitable for cooling as well: The standard heating circuit can easily be reversed in summer.
-  Fit for various applications: Private homes, residential districts, industry, and municipal heat supply.
-  Highly efficient – even in winter. Snow melting easily possible.
-  Efficient and economic: Attractive module pricing due to industrial mass production.
-  Sustainably manufactured with 100% independently certified green electricity.

The PVT Module with PV Mounting System





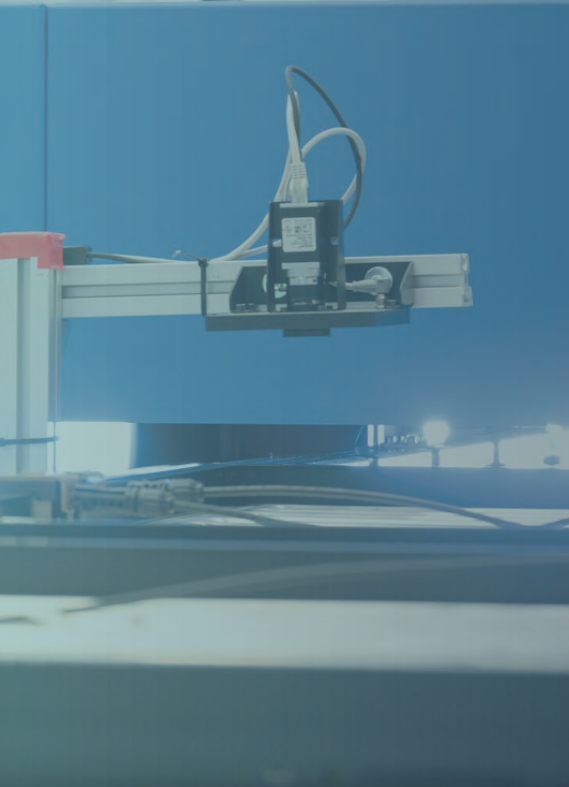
Highest Quality Standards

Sunmaxx PVT modules are produced near Dresden, Germany. It is the world's first and only industrial production facility for hybrid modules.

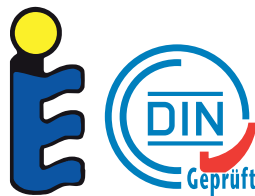
Innovative technology and patented manufacturing processes make Sunmaxx the world's leading PVT manufacturer. The PX-1 is the most powerful and cost-efficient hybrid module on the market.

It goes without saying that we place great importance on the highest quality standards in our production. Each module is thoroughly tested on our own measuring equipment before it is shipped to our customers.

In addition, our modules undergo continuous testing in our own climate chambers.



Certified and Awarded



Successful Projects with the Following Heat Pump Labels

alpha innotec · Bosch/Buderus · Dimplex · Ecoforest
 Heidinger · iDM · M-TEC · NIBE · NOVELAN · OCHSNER
 ratiotherm · STIEBEL ELTRON · tecalor · Vaillant
 Viessmann · WATERKOTTE

Full Replacement for Fossil Heating Systems

Filling up the heating tank is putting an ever-increasing strain on people's wallets. PVT offers independence from fossil fuel price fluctuations and supplies homes with:

- permanently low costs for heating and cooling
- climate-friendly energy – secure and all year round
- simultaneous power generation



HOLISTIC ENERGY SOLUTION

The Clever Alternative to Air-to-water Heat Pump & PV



Noiseless



Aesthetic



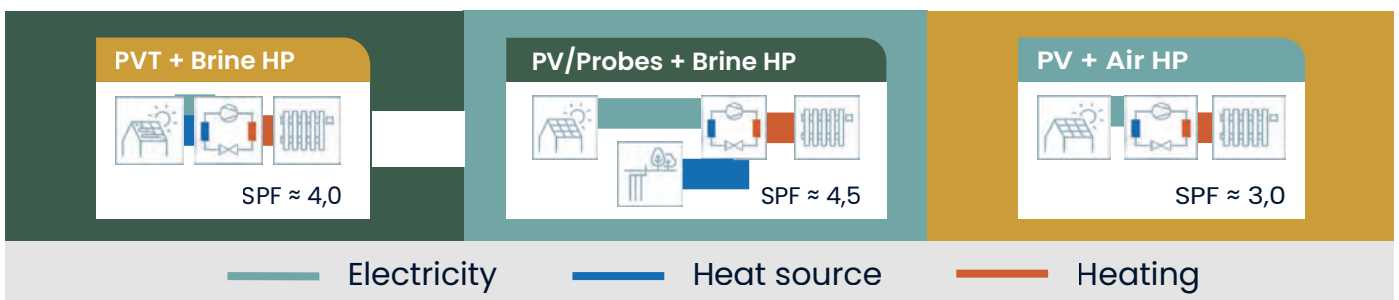
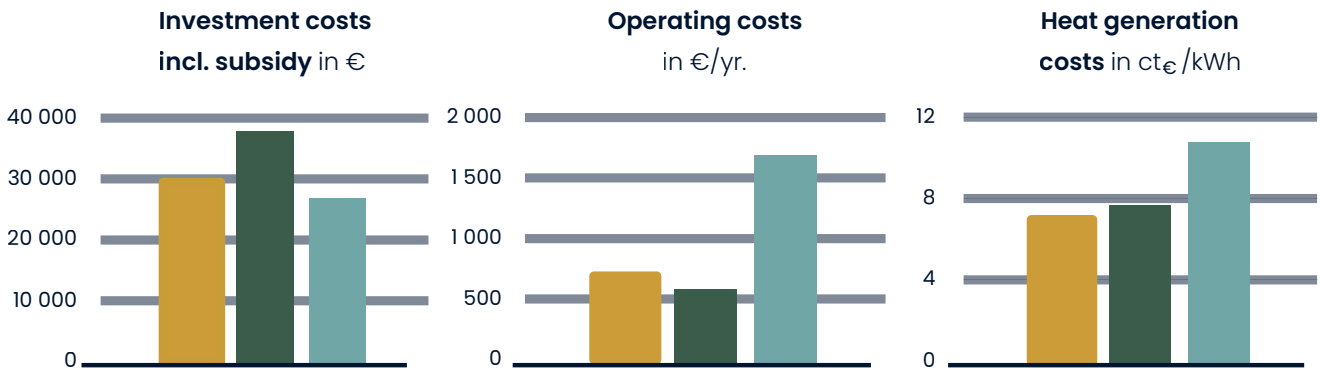
Efficient



Economic

Example Calculation

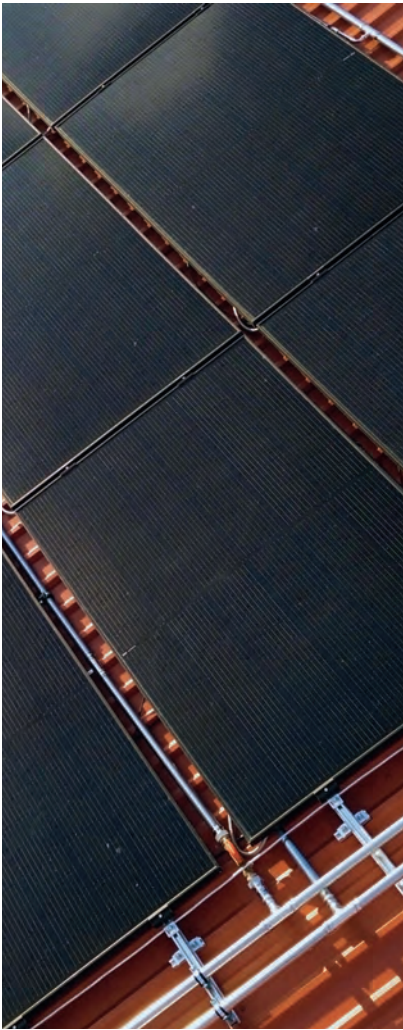
Investment Comparison



Advantages for Single-family homes using Sunmaxx PX-1 PVT modules

Monovalent operation without additional heat source: investment savings regarding planning and installation · no challenges with environmental regulations, e.g. noise emissions or water protection areas · space-saving installation – vertical mounting possible, e.g. on walls or building façades.
 Note: The overview shown above is based on example calculations. Actual costs may vary significantly depending on conditions.

The Best of Both Worlds: PV and Solar Thermal Energy in One Module.



Castle complex, Saxony-Anhalt



Apartment building, Berlin



Apartment building, Berlin



Old mansion, Zwickau



MAHLE automotive production, Baden-Wurttemberg



Sports Arena, Vienna



Private pool heating, Switzerland



Commercial building, Baden-Wurttemberg



Private home, Regensburg

Sunmaxx PVT GmbH

Your Specialist Partner

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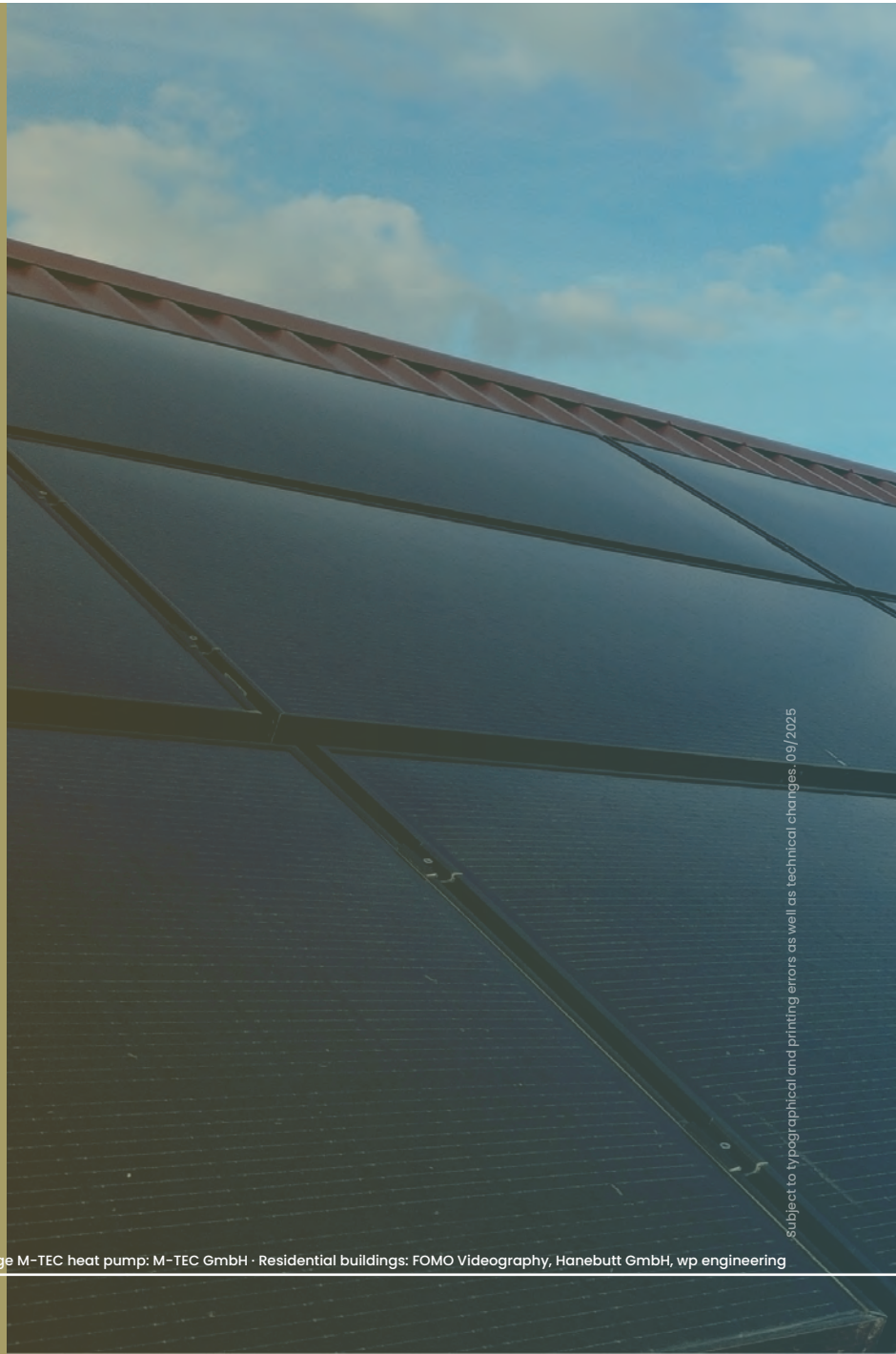
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Made for the World.



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