



SETTING
GLOBAL
STANDARDS

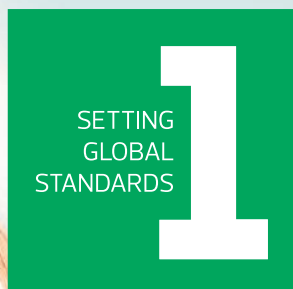
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TURNING INTO A GREENER FUTURE

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GREENoneTEC 
SOLAR INDUSTRY





TOP BRAND IN SOLAR INDUSTRY

NUMBER ONE ON THE SOLAR MARKET:

GREENoneTEC is the world's largest thermal-flat-plate-collector manufacturer with an annual production capacity of more than 1.6 million square-metres of panels.

Our highly automated, process-secured robotic production lines offer the highest quality products with excellent delivery performance and reliability – made in Austria, of course, and certified to ISO 9001 and ISO 14001 standards.

"In the global solar market GREENoneTEC has advanced to become the brand for highest production quality and innovation."

Robert Kanduth

Founder / Managing Director



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LEADERSHIP
FOR DECADES



OUR MISSION: NUMBER ONE FOR OUR CUSTOMERS

GREENoneTEC sees itself as a reliable and innovative manufacturer in the solar thermal industry. This maxim has made us the world's leading specialist in high quality solar thermal collectors.

The number 1 in the solar market

For many industries and business sectors areas we are now the first go-to company for high quality solutions: GREENoneTEC supplies highly innovative systems and quality products to manufacturers of heating systems, solar system providers and industry. However, we also support our customers in projects with energy companies, public institutions, planners and project developers, as well as with

the wholesale trade and industry. Our industrial series production guarantees consistent first-class product quality with an excellent delivery service and is focused on conserving resources and ensuring cost efficiency. Continuously we invest in market innovation and grow alongside our customers.

The best products – Made in Austria

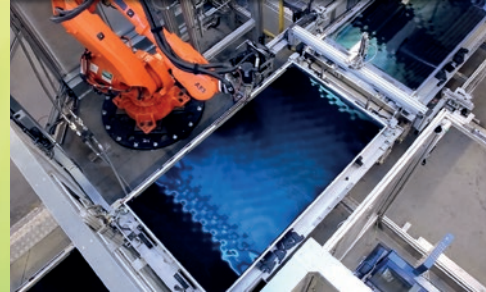
GREENoneTEC develops and produces the best solar thermal collectors and fixing systems in customized OEM versions. We supply our high performance large-area collectors to solar thermal power plants. In the global market for thermosiphon systems we inspire our

customers with our revolutionary ICS systems and set another milestone in sustainable product development with our innovative solar carports Design and Easy.

Trademark for best quality

GREENoneTEC has developed to be the brand for the highest production quality and innovation in the solar market. Praise that brings a lot of responsibility with it. As the driving force in the market we accept this challenge every day to provide sustainable success for our customers.





CERTIFIED MANAGEMENT SYSTEMS:

- Quality management according to ISO 9001
- Environmental management system according to ISO 14001
- Arbeits- und Gesundheitsschutzmanagementsystem ISO 45001

PRODUCT CERTIFICATES:

- Solar Keymark
- Austria Solar Seal of Quality (AT)
- Austrian Ecolabel (AT)
- CSTBat (FR)
- MCS (UK)
- SRCC | OG-100 – collectors (USA)
- SRCC | OG-300 – systems (USA)
- DCL – Dubai certification
- ENERGY STAR® – certification



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STATE OF THE ART TECHNOLOGY

BEING THE BEST IS THE RESULT OF CONTINUOUS IMPROVEMENT

Setting global standards

Together with our customers and in close cooperation with leading research institutions and universities we develop solutions with cutting-edge technologies. We also draw our valuable technological leadership from these global collaborations. This results in innovative products, new patents and also in collaboration on standards that set technical benchmarks.

Quality control

The quality assurance of our products begins in the development phase and ends with the delivery of the products. We test our products according to defined quality and performance

criteria. Collectors and systems are subject to extreme weather conditions and continuous stress at the outdoor testing site of our own test centre. At our indoor test laboratory performance measurements are possible without the influence of weather conditions or seasonal interruptions. The measurements made here satisfy official testing requirements.

Efficiency, performance and high-tech

Advances in the core technologies of soldering, welding and bonding enable us to manufacture solar collectors to the highest quality in industrial mass production. We create the basis for high-performance products, whose quality

is constantly high and whose price-performance ratio is excellent.

The most advanced manufacturing in the world

Our collectors are assembled in highly automated robotic production lines. The latest laser welding technologies are used for absorber production. These technologies were developed by our in-house tooling and plant technology department.

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BEST CUSTOMIZED SOLUTIONS



OUR EXCELLENT COLLECTOR RANGE

Aesthetic design and numerous environmental and innovation awards distinguish our collector families. Each individual collector range has numerous customer-specific designs. Hence, we are able to offer several hundred different types of collector variants and countless mounting solutions.

FK9000 – series tray collector

The GREENoneTEC tray collectors in the FK9000 range are made with a unique quality control system on one of the most modern and fastest robot manufacturing facilities in the world.

A specially designed 2-component adhesive is used as the jointing technology for the tray collectors. The collectors are equipped with a highly selective, coated-aluminium meander or harp absorbers. Thanks to its modular mounting system the collectors can be used for freestanding installation as well as for a variety of different roof-mounted installation types.

FK8000 – series frame collector

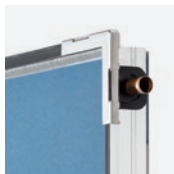
FK8000 series frame collectors are manufactured in lightweight design on an in-house fully automated robot manufacturing line. As connection technology adherence with a specially designed 2-component adhesive is applied.



FK9000



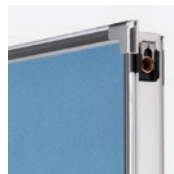
FK8001



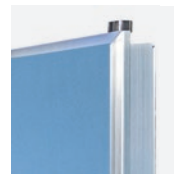
FK8003



FK8007



FK8259 ID



FK8001 – Mediterraneo

is a product innovation with an optimized ventilation concept and protects the highly selective coated absorber against marine air corrosion. This also reduces the intrusion of drifting sand, making it ideal for use in marine and near-desert regions.

FK8003 – 7one

The wave frame design with black frame solar glass gives a unique look. In addition to the standard mounting options, such as freestanding or roof-mounted installation, the

7one collector can also be recess-mounted in the roof with its own in-roof mounting kit.

FK8007 – „The all-rounder“

is the premium product in the range of frame collectors. It has numerous variants with highly selective meander absorbers. The collector's fast-connector technology guarantees short installation times.

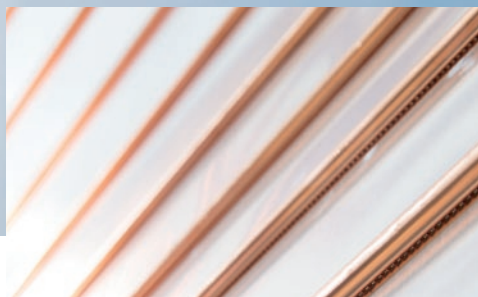
FK8259 – Inroof-Collector

guarantees well integrated inroof application by low collector height. The innovative and light weight geometry ensures ease of handling and allows the panels to be easily lifted and placed on the roof.

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BEST CUSTOMIZED SOLUTIONS



Meander absorbers developed for excellent stagnation behaviour



Highly selective full-surface absorber with over 95 % absorption

THE UNIQUE QUALITY OF OUR HIGH-PERFORMANCE ABSORBER

The GREENoneTEC manufacturing technology for full-surface high-performance absorbers is unique in the market and therefore provides the basis for the decisive advantage of our collectors.

Our meander registers are formed in the fully automated meander bending plant; the harp registers are completed using a fully automatic soldering machine.

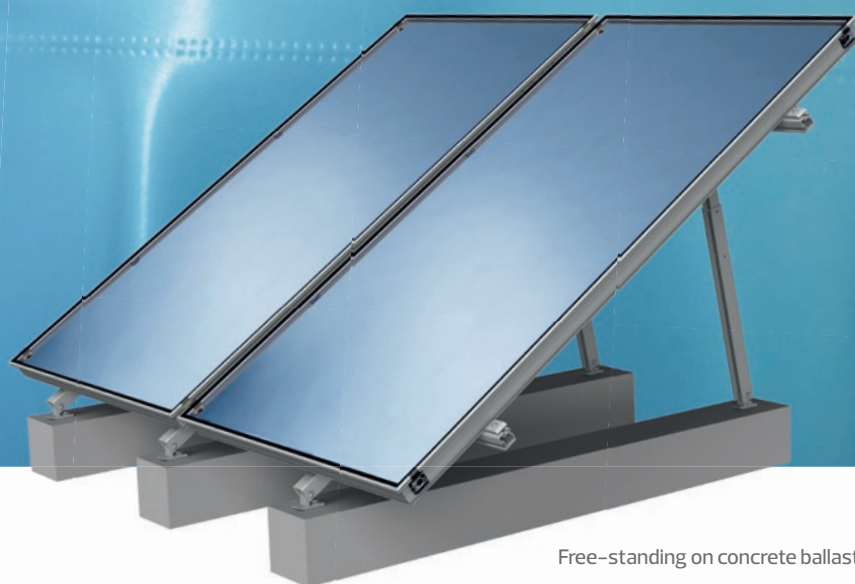
Laser and ultrasonic welding technology

Our production has been designed for industrial mass production based on multi-stage quality assurance procedures and relies on optimized laser and ultrasonic welding technology and a highly automated copper and aluminium semi-finished products manufacture.

Safe transport packaging

For a perfect product delivery of all the collectors GREENoneTEC transport packaging is designed for maximum product safety and cost efficiency. We offer our customers special reusable packaging solutions for absorbers.

- Laser-welded absorbers in aluminium from a single source with excellent strength and durability values of the weld seams
- Automated quality assurance concept with 100 % pressure test to 15 bar on all absorbers
- Cost-effective and safe transport packaging
- 0.3 – 0.5 mm absorber panel thickness
- Absorbers in all customer-specific sizes available



Free-standing on concrete ballast

FASTENING SYSTEMS FOR EASY AND SAFE INSTALLATION

The all-in-one solution

High quality collectors also need an optimal fastening concept. For all collector families GREENoneTEC supplies the best possible fastening systems and accessories for all roof-mounted and free-standing installation types.

Simple, universal and safe

In the design and the materials the focus is on short installation times and maximum safety in accordance with EN 1991. Kit sizes and packaging are tailored to customer-specific logistics requirements.

Customer-specific kits and manuals

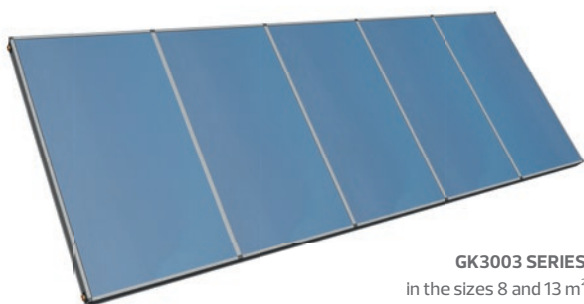
We offer specific kit types according to individual customer requirements and associated manuals with all installation steps with clear image text passages – on request in the corporate design of our customers.



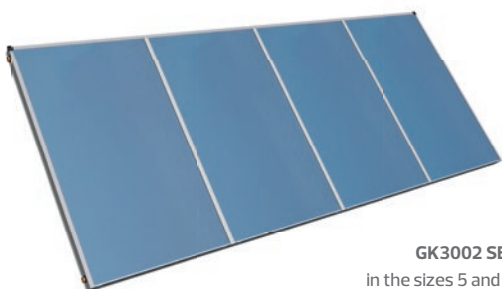
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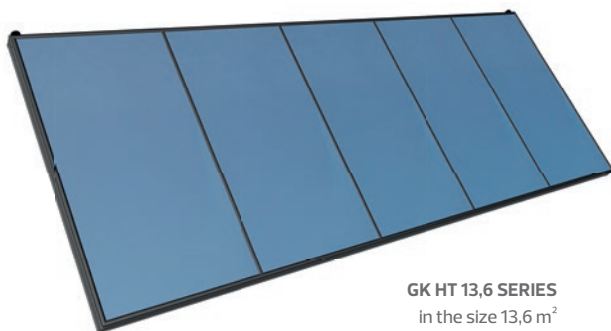
LARGE-SCALE SOLAR COLLECTOR



GK3003 SERIES
in the sizes 8 and 13 m²



GK3002 SERIES
in the sizes 5 and 10 m²



GK HT 13,6 SERIES
in the size 13,6 m²

LARGE-SCALE COLLECTORS

The large-scale collectors series 3003, 3002 and GK HT are ideal for applications in the medium temperature range, such as district heating systems, industrial process heat, multi-family residential installations and solar cooling.

The unique anti-reflective glazing (in single or double design) ensures maximum efficiency.

The GK HT 13.6 offers high efficiency at an attractive price and is a durable, tried and tested quality product. The advantages of the collector are particularly evident in very large systems. The GK HT is considered the international standard for district heating.

GREENoneTEC provides a 10-year warranty on all large-scale collectors!





**AUSTRIA'S
LARGEST
THERMAL SOLAR
PLANT**

FOR LARGE SOLAR POWER PLANTS SIZE AND EFFICIENCY ARE THE KEY FACTORS

For the operation of large solar thermal power plants such as district heating and process heating systems, GREENoneTEC has developed its own large-size collectors with special performance features that provide the optimum design for the requirements of large solar thermal power plants.

Highest performance benchmarks

Due to their special absorber design the collectors in the GK3003 and GK3002 ranges have attractive performance data and properties. The GK3003 demonstrably delivers the current best performance on the market for applications in the medium temperature range. The GK3003 is available in single-glazed and double-glazed design anti-reflective coating on both sides. In the double-glazed model the duo

coated anti-reflective glass increases transmission and reduces reflection to a minimum, greatly reducing heat losses in the process.

Maximum efficiency for large systems

The GK3003 series features serial interconnections of up to 220 m² with reduced pressure losses and the smallest expenditure on piping. The meander absorbers, designed for large installations, ensure material-saving stagnation and draining behaviour as well as a lower pressure loss.

Simple installation of the system

An optimised fastening system and easy interconnection massively reduce the expenditure for installing the system by crane. In summary:

Maximum performance combined with lowest investment costs for maximum return on investment. And all this includes a 10-year warranty.

Maximum efficiency for large systems

The GK HT collector with its 13.6 m² is the world's most widely used collector for district heating. Outstanding price-performance ratio with optimised product design offer an ideal solution for the application. The welded aluminium frame parts ensure the corresponding stability and this type has already been used several times in rough terrain.

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Austria / Vienna

WE PROVIDE COMPETENCE, EXPERIENCE AND GUARANTEES FOR WORLDWIDE SUPERIOR PROJECTS

In order to design projects 100% according to your needs and requirements we cooperate with a strong local network of highly experienced engineers, lawyers and accountants. This secures full compliance with all local technical and legal regulations.

Engineering

We are planning and developing large solar thermal installations for our customers. This includes the initial economic and technical feasibility study, the whole engineering process, proper project planning and the right definition of interfaces with existing heating systems.

Procurement

This includes the procurement of all required materials and components, management of the whole logistics and supply process as well as a thorough technical construction of the installations. Our rigid project management guarantees shortest realization times.

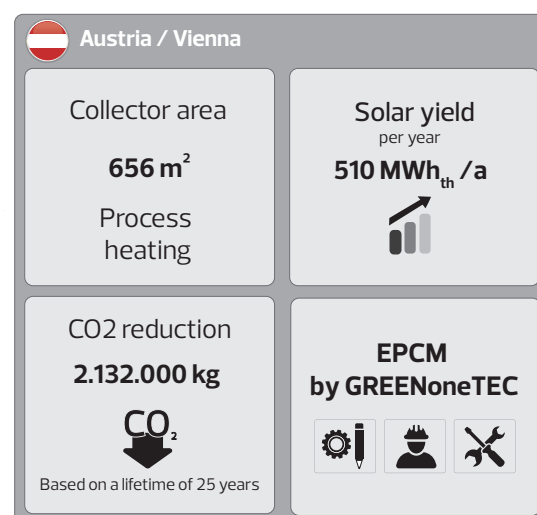
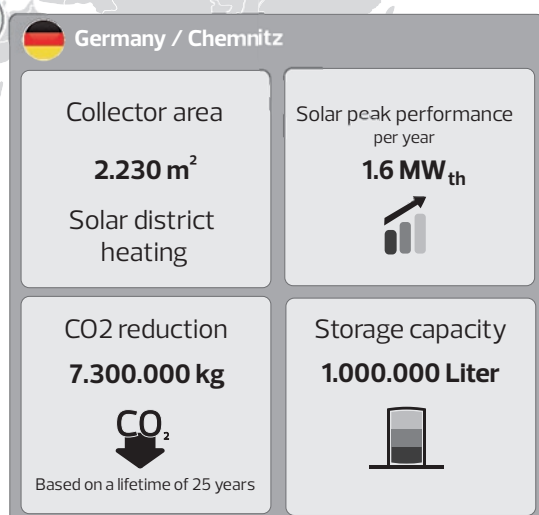
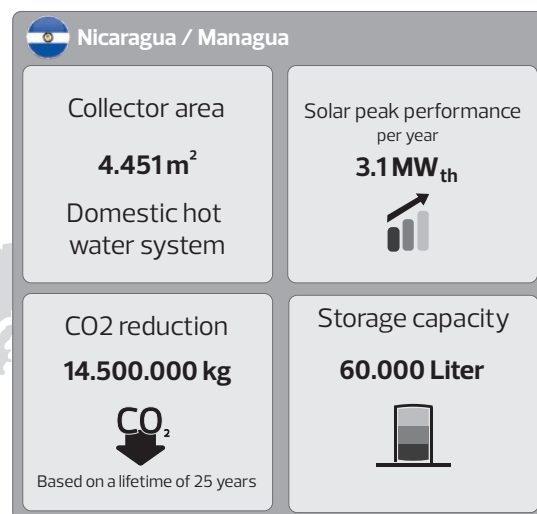
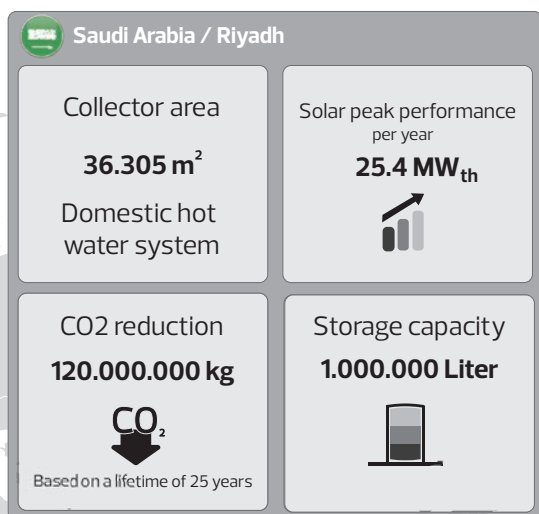
Construction

We offer asset and facility management for the installations during the entire period of operation. We check and document the installations performance on an ongoing basis. These seamless online diagnostics, together with on-site specialists, ensure trouble free, yield optimized operations and effectively prevent production interruptions and unpleasant surprises.

PARTNER FOR

- District heating
- Industrial applications
- Process heat
- Domestic hot water systems
- Solar cooling
- EPCM





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WORLD'S MOST REVOLUTIONARY SOLAR WATER HEATER



SUNPAD TURNS THE SOLAR WORLD UPSIDE DOWN

Inspired by nature, we have developed this revolutionary new solar heater for hot water. SUNPAD is less expensive and more user-friendly, innovative and aesthetically pleasing than any previous heater system on the planet. SUNPAD provides sustainably treated hot water at the best price and is the perfect symbiosis of innovation, design and usability. We contribute to significantly influencing the energy habits of the worldwide population through SUNPAD.

The CO₂ saving of one SUNPAD corresponds to 100 huge planted trees. SUNPAD a groundbreaking technology and an unbeatable price-performance ratio. Easy Principle, fascinating result. Tread a path for a sustainable future.

- Revolutionary design
- Excellent performance
- Cost and energy efficient
- Innovative complete system
- Flexible and user-friendly
- Aesthetic roof integration
- Optimized packaging
- Intelligent fresh water system
- **SUNPAD E** with 1 kW | 2 kW heating rod



Follow us ...



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MOST SUSTAINABLE COLLECTOR SYSTEM



THERMOSIPHON CLASSIC WITH KNOW-HOW FROM GREENoneTEC

- Best system performance in the world
- Solar Keymark tested
- 2-circuit system
- Natural heat cycle without pump
- No electricity supply required
- Modular system construction
- Five-year manufacturer warranty



The high-performance but attractively priced "Slimline" quality collector is the starting point for the thermosiphon system from GREENoneTEC.

The connection lines from the solar collector to the storage tank are well protected by being integrated in the collector. Energy losses are therefore eliminated and the full power of the sun is used for heating water. Apart from the quick and easy installation, this clever solution also satisfies demanding aesthetic requirements. The generated heat can also be stored over a longer period thanks to a special tank insulation.

All thermosiphon systems (160, 200, 300 litres) are designed as "high pressure" dual-circuit systems and thereby guarantee maximum solar yields. This makes a substantial contribution towards cutting costs and saves you money according to the maxim:

We don't get a bill from the sun.



GREENoneSOL-L

ANTI-FREEZE CONCENTRATE OR FINISHED MIXTURE

GREENoneSOL-L is a heat transfer fluid for solar energy systems with a technical 1,2 propylene glycol (MPG) base, available as a concentrate or as a ready-to-use heat transfer fluid.

- Anti-freeze protection at low temperatures
- Corrosion protection, even for mix installations
- Good transmission of solar thermal power to the storage unit
- To be used with vacuum-tube collectors
- Bio-degradable





GREENPORT DESIGN – AESTHETIC PARKING FOR A GREEN FUTURE

With the opening of the new GREENPORT business division, GREENoneTEC is setting another milestone in sustainable product development. Our solar carport systems are not only intelligent, aesthetically pleasing and technically sophisticated, but of course also sustainable. As with all GREENoneTEC products, the focus is on the sun as an energy source. By using solar energy, GREENPORT is therefore actively contributing to the energy transition.

With GREENoneTEC's expertise in the manufacture of high-performance solar collectors and mounting systems, customers can be sure that GREENPORT solar carports are developed and produced to the highest technological standards. There are currently 2 product lines to choose from, GREENPORT Design and GREENPORT Easy.

Play it safe: comfortable parking

Thanks to its wing-shaped design, our carport enables customer-friendly parking and entry/exit from the vehicle – making it an inviting space for every vehicle.

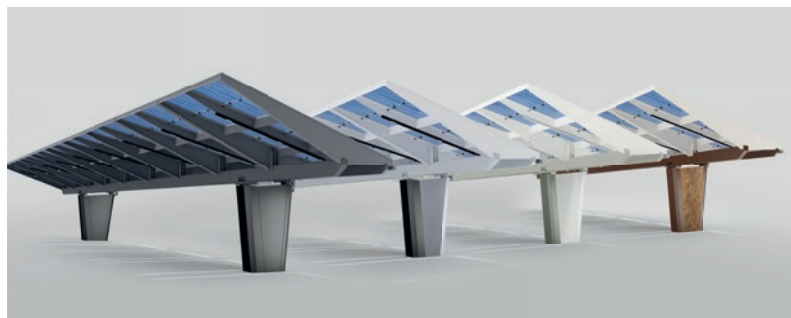
Generates electricity, not problems: easy installation.

Greenport consists of only four standard parts, which can easily be assembled using screws. This modular design also enables easy transfer to another location

without elaborate disassembly or reassembly work.

Bask in the sun –and in your savings: low material & maintenance costs.

By reducing the number of pillars, our carport not only enables an aesthetically pleasing and open design, but also provides a cost-efficient solution.



Alongside the option for a customised design, here at GREENPORT, we also offer a selection of design lines as inspiration.

Ein Produkt von **GREENoneTEC** ¹
SOLAR INDUSTRY



GREENPORT EASY – THE SIMPLE, INEXPENSIVE SOLAR CARPORT SOLUTION

Easy parking, easy saving:

GREENPORT Easy transforms ordinary parking spaces into top-class covered car parking spaces in the blink of an eye, providing customers with more convenience and you with lower costs – thanks to simple installation without

excavation work and integrated solar panels for environmentally friendly energy generation.

Beautiful & beautifully affordable:

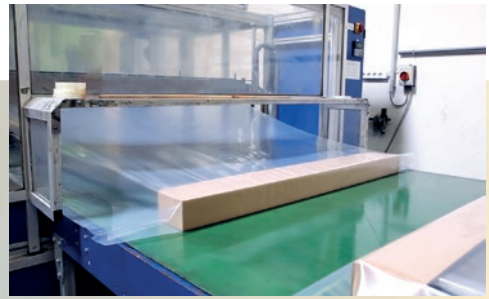
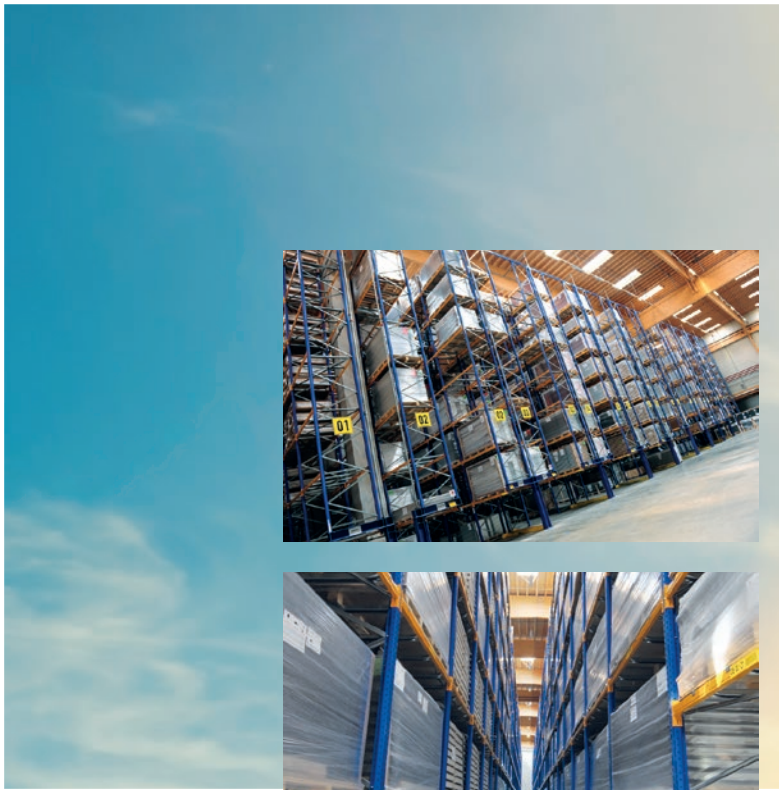
GREENPORT Easy adapts to any parking space size and, thanks to its sophisticated

design, also offers the freedom you want when getting in and out.



It's easy to turn your car park into a large-scale photovoltaic system and thus into an investment project.





ADDED VALUE FOR OUR CUSTOMERS:

- Year-round supply performance > 99 % even in the seasonal peak months
 - More consistent utilisation of production capacity in top products
 - Transport and cost-optimised packaging solutions as well as reusable packaging solutions
 - Commissioning
-



PERFECT LOGISTICS SERVICES

TOP LOGISTICS PERFORMANCE IN PACKAGING AND DELIVERY

The GREENoneTEC supply chain

A decisive competitive advantage for us and for our customers is our ability to generate a seamless supply chain and hence the associated extremely reliable delivery performance. Our modern high bay warehouse allows us to provide cost-optimised production even during the winter months and to guarantee a constant supply capacity at peak times.

Logistics services

It is a major logistics achievement to have all required collectors in stock. We offer our customers a delivery reliability of > 99 % even during the seasonal peak months.

Up to 150,000 m² of collector area are stored in the 6,400 storage spaces available in the up to 17m high rows of high-bay shelving.

Customized packaging solutions

Collectors and fastenings for all types of shipping (truck, air or sea) can be packaged flexibly and economically in our own packaging centre. This also includes developing and implementing customized packaging solutions for specific transportation requirements and warehouse management systems.



GREENoneTEC – SETTING GLOBAL STANDARDS:

- The world's leading thermal flat-panel-collector manufacturer
- Annual production capacity of 1,6 mio. m²
- 28.000 m² production facilities in Austria
- 150.000 m² storage facilities
- Solar entrepreneur with over 30 years experience
- Extensive product warranties
- Over 250 patented R&D projects



GREENoneTEC **1**
SOLAR INDUSTRY

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