



SOLprime Power Systems GmbH

MOUNTING SYSTEMS FOR SOLAR PARKS

CATALOG 26 | [SOLPRIME.de](https://www.solprime.de)

SOLPRIME POWER SYSTEMS GMBH

MOUNTING SYSTEMS + SPECIAL CONSTRUCTIONS

LOCATIONS KIEL | HANDEWITT

Our mounting systems stand for **efficiency and easy handling** – with sophisticated designs that enable **fast and smooth installation**.

Substructures that combine **technical innovation and many years of practical experience** – adaptable to terrain topography, wind zones, soil types, and module configurations.

In addition to our mounting systems, we are happy to support you with **comprehensive services** – from **layout planning** to **soil surveys** and **structural analyses**, all the way to the **complete installation of your solar project**.



Learn more about our systems!!

OUR STRENGTHS

ANALYSIS

- Site pre-investigations
- Soil surveys
- Foundation surveys
- Pile-driving depth assessment

MOUNTING SYSTEM

- Customer-specific layout plans
- Customized mounting systems
- Structural analyses

INSTALLATION SERVICES

- Pile-driving and foundation services
- Rack installation
- Module installation
- DC installation
- Construction site setup
- Construction and project management

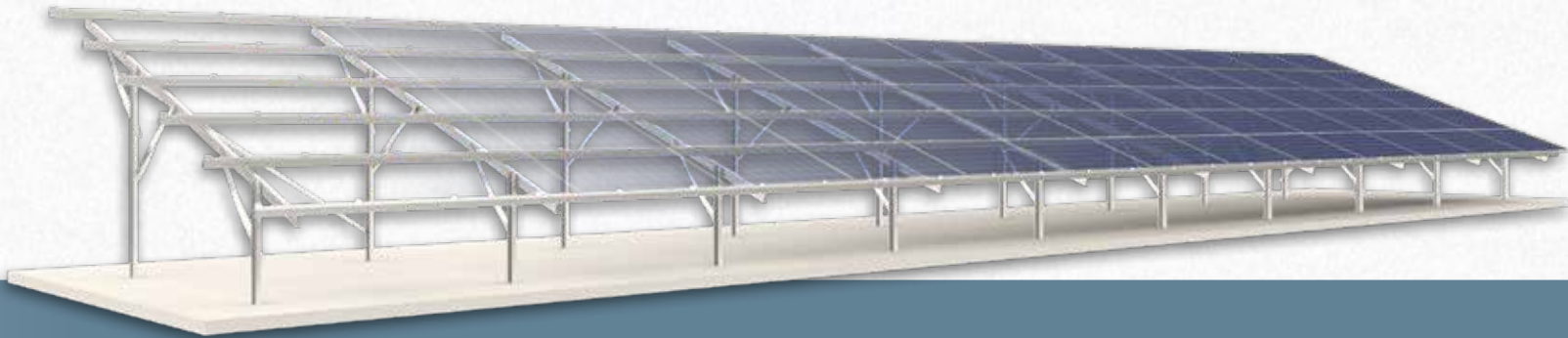
ADDITIONAL SERVICES

- Logistics
- Fencing with installation
- App-based material and workflow management

TYP
10R



 MOUNTING SYSTEM
TYP 10R



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

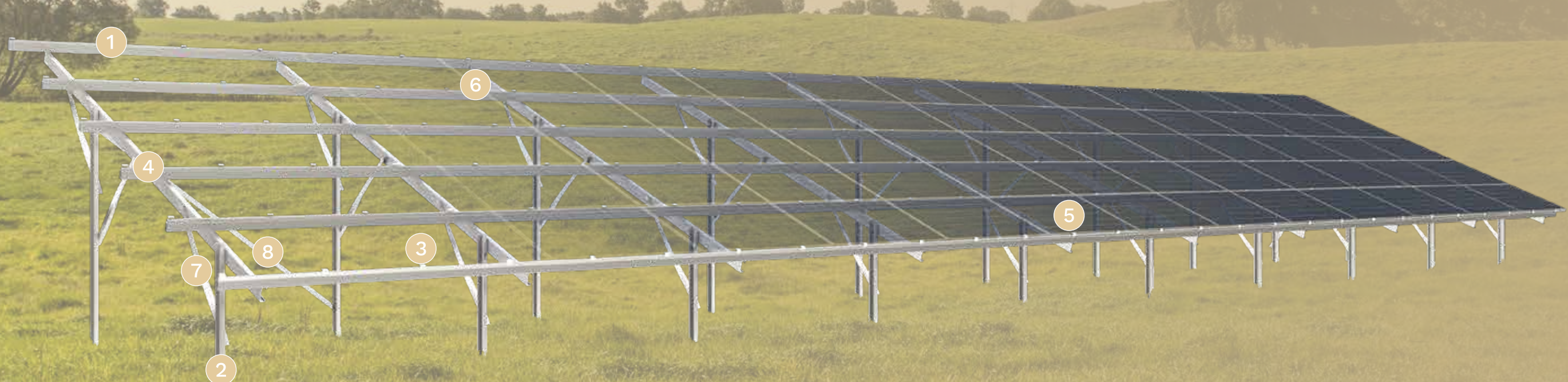
Module alignment	Horizontal (landscape)
Modul series	5 vertical 14 horizontal
Modul area	≈ 115 m²
Table, module surface (H×B)	≈ 5 m × 23 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **5×14**     



MAXIMUM QUALITY FOR A LONG SERVICE LIFE

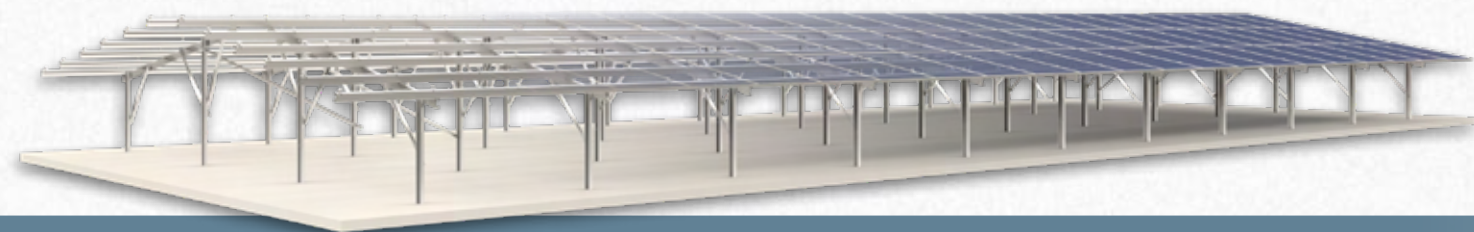
HOT-DIP GALVANISED | ZM-/ZAM-COATING



- 1 ASSEMBLY PROFILES
- 2 PILLING POST
- 3 MODULE CLAMPS
- 4 MODULE CLAMING PLATE
- 5 PV-MODULES
- 6 PURLIN
- 7 WIND BRACING
- 8 TENSION CONNECTORS



MOUNTING SYSTEM EAST/WEST



CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

Illustrative representation on the TYP 10R MPS system Included

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	2 × 5 vertical 14 horizontal
Modul area	≈ 230 m²
Table, module surface (H×B)	≈ 5 m × 23 m
Standard pile-driving depth: 800 – 1.800 mm	

Alternative: Vertical layout possible

Module assignment **2×5×14**     

EAST
WEST





TYP
15R

 MOUNTING SYSTEM
TYP 15R



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

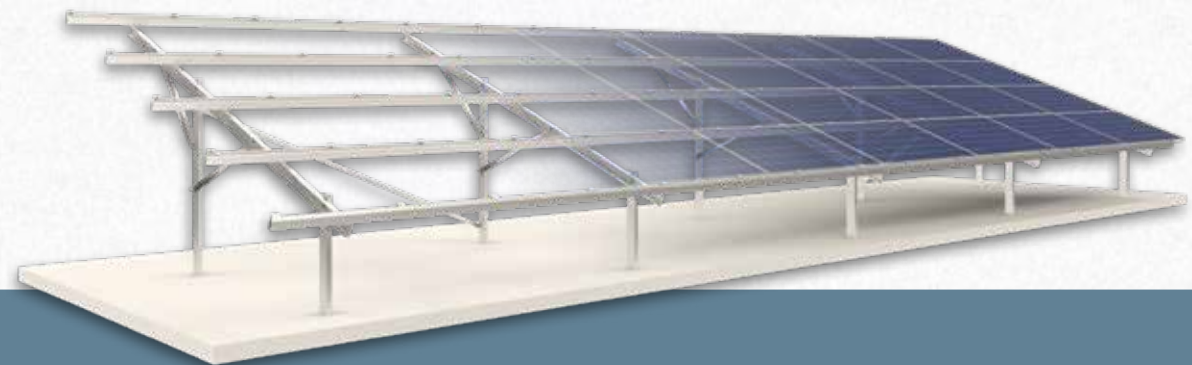
MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	3 vertical 8 horizontal
Modul area	≈ 40 m²
Table, module surface (HxB)	≈ 3 m × 13,3 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **3x8**     



MOUNTING SYSTEM TYP 17R



CONSTRUCTION

Materials	Steel, aluminium, stainless steel
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	4 vertical 8 horizontal
Modul area	≈ 53 m²
Table, module surface (H×B)	≈ 4 m × 13,3 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **4×8**     

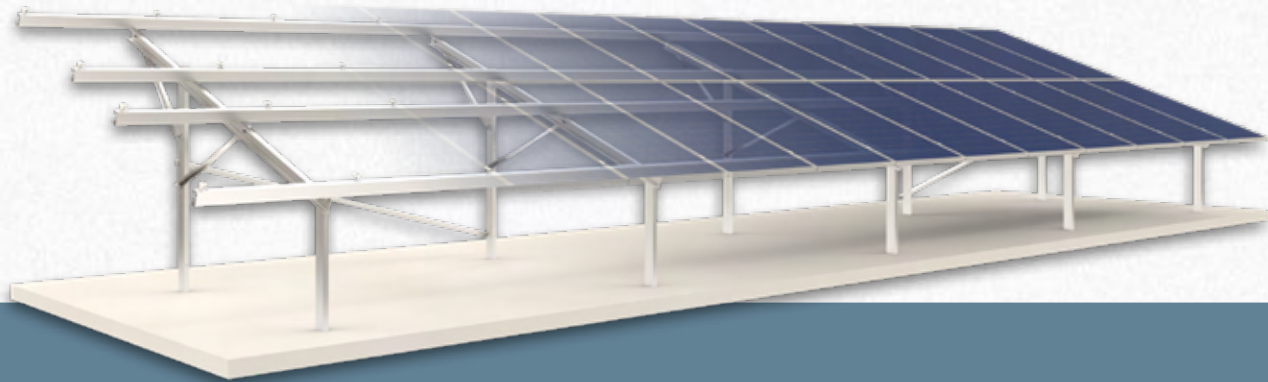
TYP
17R



TYP
17R
MPS V



 MOUNTING SYSTEM
TYP 17R MPS V



CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

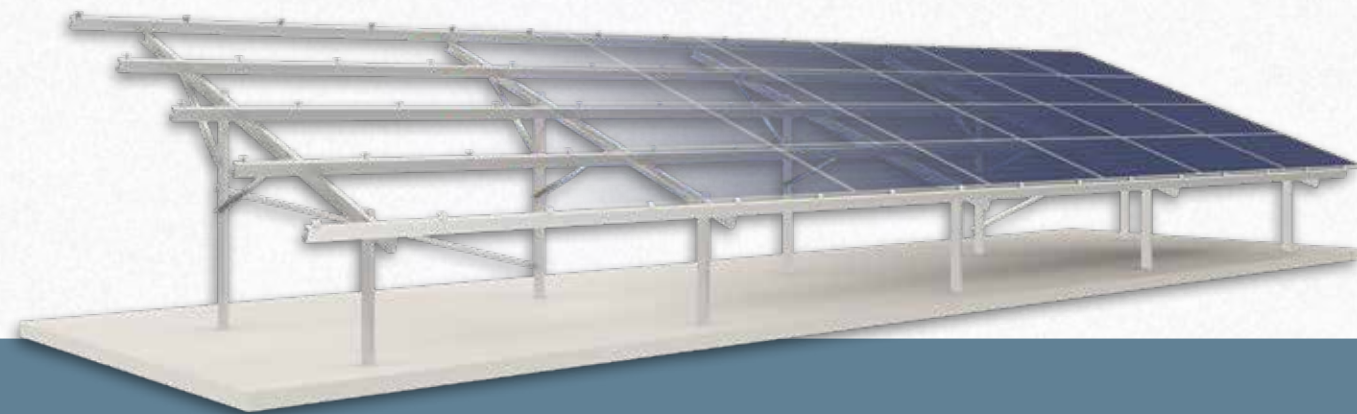
MODULE EXAMPLE ASSEMBLY

Module alignment	Vertikal (portrait)
Modul series	2 vertical 13 horizontal
Modul area	≈ 52 m²
Table, module surface (H×B)	≈ 4 m × 13 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **2×13**     



MOUNTING SYSTEM TYP MPS H



CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	4 vertical 8 horizontal
Modul area	≈ 53 m ²
Table, module surface (H×B)	≈ 4m × 13,3 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **4×8**     

TYP
17R
MPS H





MOUNTING SYSTEM

TYP 18R



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	Slope paralle
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	5 vertical 8 horizontal
Modul area	≈ 66 m²
Table, module surface (HxB)	≈ 5 m × 13,3 m
Standard pile-driving depth: 600 – 1.000 mm	

Module assignment

5×8





MOUNTING SYSTEM TYP 40R NME

EXPAND YOUR GROUND-MOUNTED SYSTEM WITH A NORTH MODULE EXTENSION



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	15 ° Nord – 5 ° Süd
Approvals / Standards	CE, EN

Exemplary representation on the system TYP 15R 3×8

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	1 vertical 8 horizontal
Modul area	≈ 13,3 m²
Table, module surface (H×B)	≈ 1 m × 13,3 m

Module assignment 1×8



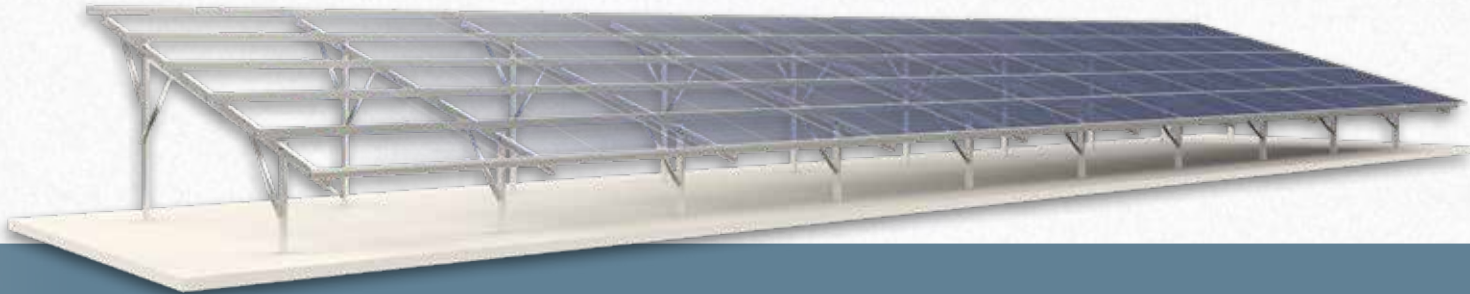
AUCH FÜR
FREMSYSTEME
GEEIGNET

TYP
40R
NME

TYP
44R



 MOUNTING SYSTEM
TYP 44R



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-Analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 25 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	5 vertical 10 horizontal
Modul area	≈ 130 m²
Table, module surface (H×B)	≈ 5,7 m × 22,8 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **5×10**     



MOUNTING SYSTEM TYP 46R V



CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 20 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Vertikal (portrait)
Modul series	3 vertical 20 horizontal
Modul area	≈ 151 m²
Table, module surface (H×B)	≈ 6,9 m × 22,9 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **3×20**     

TYP
46R
V





TYP
46R
H

 MOUNTING SYSTEM
TYP 46R H



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 25 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	6 vertical 10 horizontal
Modul area	≈ 158 m²
Table, module surface (H×B)	≈ 6,9 m × 22,9 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment 6×10     



MOUNTING SYSTEM TYP 59R



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 30 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	4 vertical 4 horizontal
Modul area	≈ 44 m ²
Table, module surface (H×B)	≈ 4,6 m × 9,6 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **4×4**



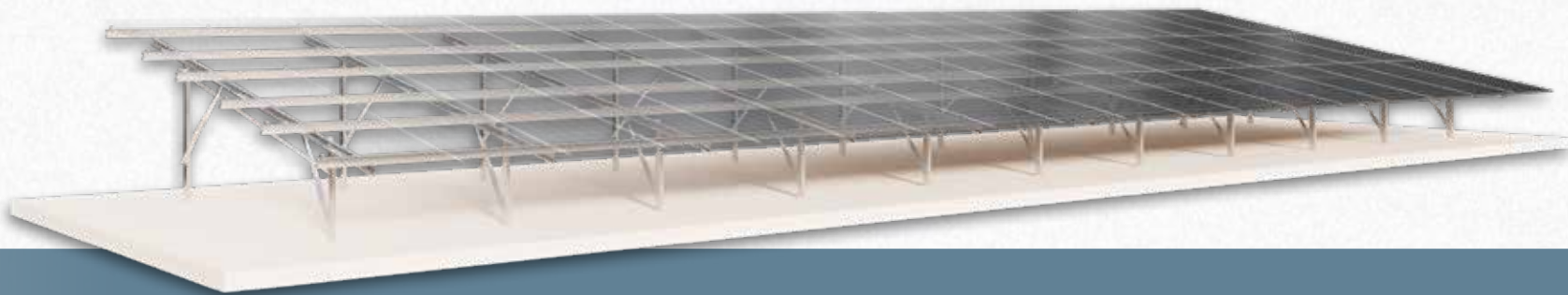
TYP
59R



Foto: Markus Lindert
Quelle: Hannover Airport



 MOUNTING SYSTEM
TYP 63R



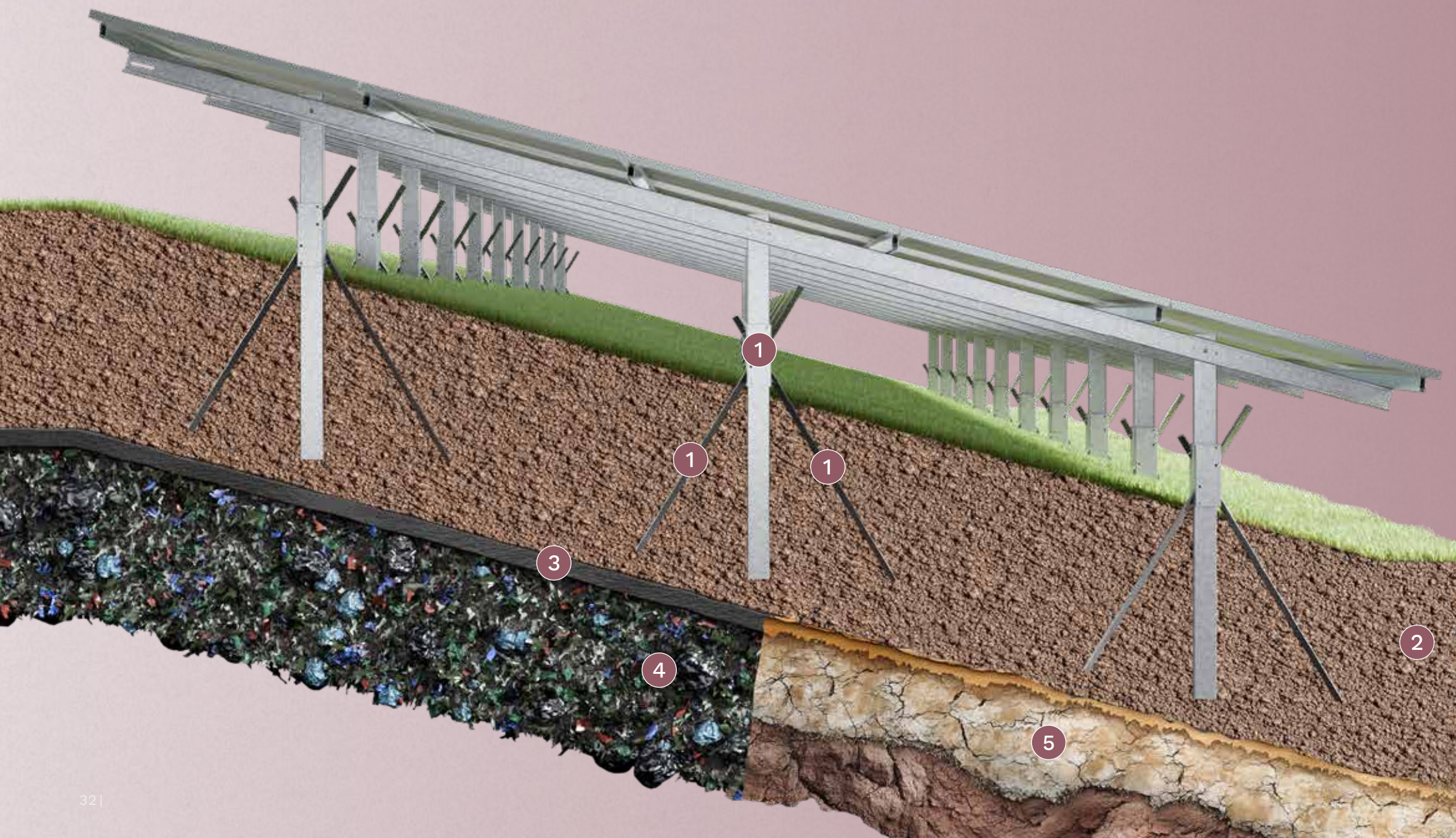
CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 20 °
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Vertikal (portrait)
Modul series	3 vertical 18 horizontal
Modul area	≈ 148 m²
Table, module surface (H×B)	≈ 7,2 m × 20,6 m
Standard pile-driving depth: 800 – 1.800 mm	

Module assignment **3×18**     



SLOPE SYSTEMS MOUNTING SYSTEM

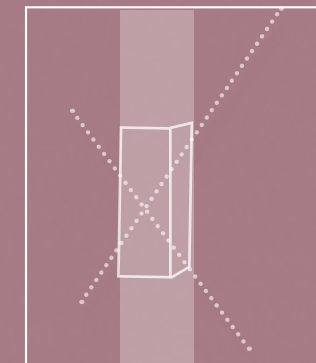
LANDFILLS WITH NEW PURPOSE

Investors and project developers are continuously searching for suitable locations for open-space installations that are low-conflict and permit-ready.

Landfills are becoming an increasingly attractive option, although several important aspects must be considered. Often, it is not only the slope that poses a challenge, but also the low ram penetration depth, which creates an additional difficulty.

Our mounting system for hillside installations offers optimal solutions for these requirements. Even with a thin cover layer, the specially engineered root foundation with the “Pins & Collars” root sleeve ensures the necessary structural stability without damaging the sensitive membrane. Benefit from our expertise and secure a future-proof investment in renewable energy.

We look forward to your inquiry



- 1 ROOT FOUNDATION PINS & COLLARS
- 2 SOIL
- 3 PROTECTIVE MEMBRANE
- 4 LANDFILL MATERIAL
- 5 ROCK



MOUNTING SYSTEM TYP 47R P&C



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	Hangabhängig
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	5 vertical 10 horizontal
Modul area	≈ 130 m ²
Table, module surface (H×B)	≈ 5,7 m × 22,8 m
Standard pile-driving depth: 600 – 1.000 mm	

Module assignment **5×10**     

TYP
47R
P&C



SPECIAL CONSTRUCTIONS

MORE THAN JUST A MOUNTING SYSTEM

VERSATILE | RELIABLE | COST-EFFICIENT

We implement projects worldwide with custom-made special constructions that meet the requirements and expectations of our customers.

Our experienced engineering team develops tailor-made system solutions for a wide variety of applications – from flexibly designed **Agri-PV** systems to innovative **Floating-PV** solutions.

With your project and our mounting systems, we work together to create an environmentally friendly future..



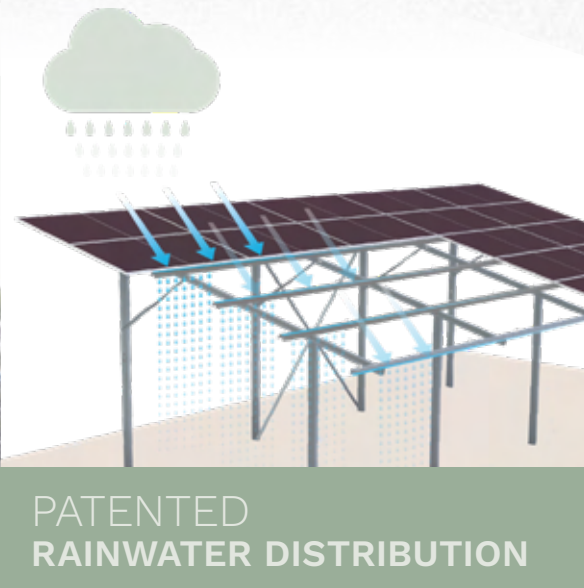
Discover more about our versatility

CHALLENGE US!

Whether it's difficult terrain, extreme weather conditions, or special technical requirements – systems from SOLprime are equipped to handle any challenge.



TYP
57R



PATENTED
RAINWATER DISTRIBUTION

SPECIAL CONSTRUCTION
AGRI-PV TYP 57R



CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 – 15 °
Lichte Höhe	2,1m
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

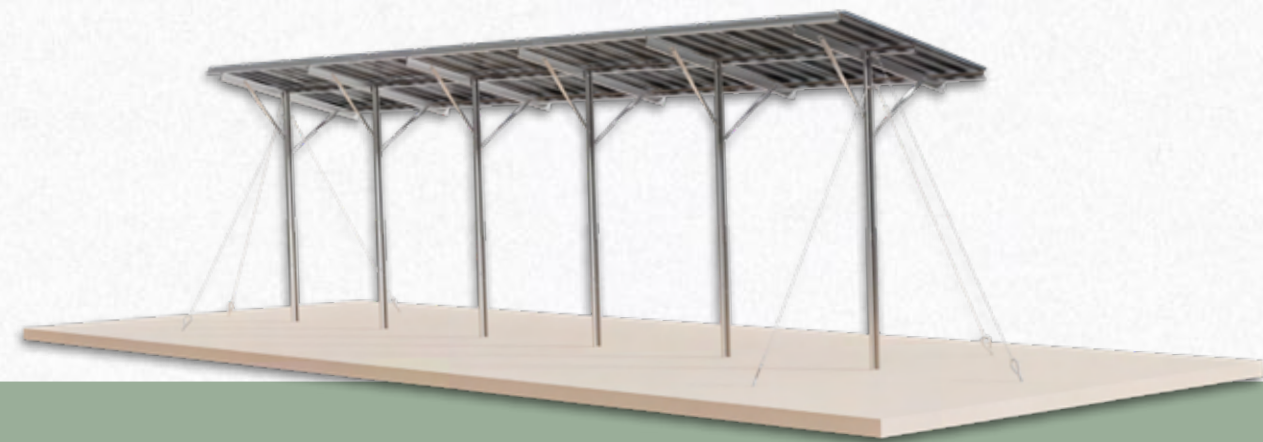
MODULE EXAMPLE ASSEMBLY

Module alignment	Horizontal (landscape)
Modul series	5 vertical 22 horizontal
Modul area	≈ 284 m²
Table, module surface (H×B)	≈ 5,6 m × 50,3 m
Standard pile-driving depth: 1.500 – 2.500 mm	

Module assignment **5×22**   



SPECIAL CONSTRUCTION
AGRI-PV TYP UMBRELLA



CONSTRUCTION

Materials	Steel, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
Wind tunnel optimised	Yes
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	15 °
Lichte Höhe	3,1m
Foundation	Rammed, bolted, founded, screwed
Approvals / Standards	CE, EN

MODULE EXAMPLE ASSEMBLY

Module alignment	Vertical (portrait)
Modul series	1 vertical 14 horizontal
Modul area	≈ 36 m²
Table, module surface (HxB)	≈ 2,2 m × 16 m
Standard pile-driving depth: 2.000 – 2.500 mm	
Alternativ: Horizontalauslegung ausführbar	

Module assignment 1×14



TYP
UMBRELLA







SPECIAL CONSTRUCTION
FLOATING-PV



CONSTRUCTION

Materials	Steel, aluminium, stainless stell
Coating	Hot-dip galvanised ZM-/ZAM – coating
Connection type	Screw connection
FE-analyse	Yes
Statics	System statics (Eurocode)
Tilt angle	10 ° – 15 °
Foundation	Anker, Landabspannung
Approvals / Standards	CE, EN

Module assignment 2x6





AGRI-PV

DUAL-USE CONCEPT

COMBINING SOLAR ENERGY AND AGRICULTURE

Agri-PV enables the dual use of land for agriculture and energy production — sustainable, efficient, and environmentally friendly. The system protects against extreme weather conditions and simultaneously provides optimal habitats for plants and animals..



Learn more about this exciting solar technology

In early summer 2020, a new **Agri-PV Research Center** was established in Brandenburg. SOLprime Power Systems GmbH developed a wide range of Agri-PV solutions on 1.6 hectares, including hall systems and lightweight construction spaces.

Since then, various research projects have been carried out at this location in cooperation with several institutes, with our systems being continuously improved.

The research center attracts thousands of visitors each year from politics, science, industry, and agriculture, serving as a pioneering example of innovative Agri-PV technologies.







FOOD & ENERGY

2 MW TRAINING CENTER

UNIVERSITY ANTIRIABE MADAGASKAR

Behind the **Food & Energy** concept of SUNfarming GmbH lies the combination of clean energy generation, ecological agriculture, and hands-on training.

For the client, we designed a project-specific **Agri-PV system**, produced and delivered all components, and were responsible for project management and construction on site.

The installed PV capacity of the plant is **2 MWp**, which, given the solar irradiation levels in Madagascar, enables an annual electricity production of around **2.500.000 kWh** and leads to **CO₂** savings of approximately **1.500**.

A central component of the project is **agricultural use**: Based on optimized drip irrigation, farmers can grow high-quality vegetables.

In addition, the facility includes an **integrated training center** for ecological food production and solar PV technologies. In cooperation with the Antsirabe Institute of Higher Education, “train-the-trainer” programs are offered for trainees and students from agricultural and technical faculties. The goal is to teach methods to increase agricultural production efficiency, improve water management, and expand market access. All stages of cultivation are covered — from planting and fertilizer management to harvesting, packaging, and marketing.

Technical training also plays a key role: From the basics of electrical engineering to specific areas of renewable energy, future professionals are trained with a strong practical focus.

Another core goal of the project is the creation of jobs — both for the construction, operation, and maintenance of the plant as well as in the agricultural sector.







FOOD & ENERGY WORLDWIDE

GREEN ENERGY | FOOD SECURITY | EDUCATION

The **Food & Energy Concept** pursues an integrated and sustainable approach to improving living conditions in structurally weak regions. The focus is on environmentally friendly power generation from renewable energies, the protected cultivation of food in modern **Agri-PV systems**, and the training of local people.

These projects specifically promote the creation of new jobs and strengthen the future prospects of local communities. In addition, they support education and training initiatives to sustainably expand knowledge, self-sufficiency, and opportunities.

Each project also serves as „**proof of concept**“ and forms the basis for further initiatives.

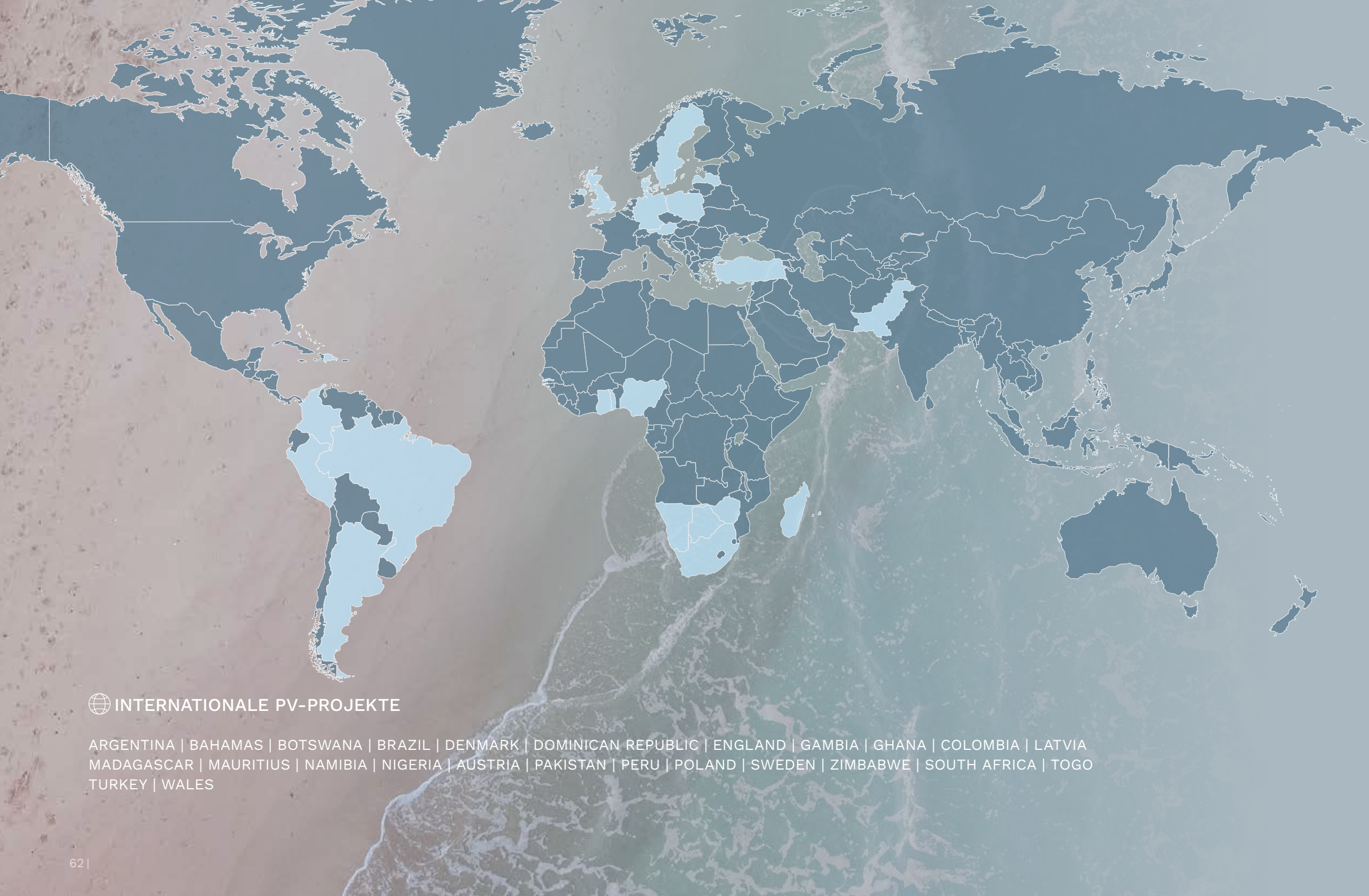
The Food & Energy Concept thus sets the course for sustainable development with measurable social, economic, and ecological benefits.

COMPLETED FOOD & ENERGY PROJECTS

- Training and Research Center Gros Cailloux, Mauritius
- Training and Research Center Caucaia, Brazil
- Training Center Salta, Argentina
- Hybrid Center Nassau, Bahamas
- Hotel Gardens Corfu, Greece
- Training Center Osmaniye, Turkey
- Training Center Potchefstroom, South Africa
- Training Center Antsirabe, Madagascar
- Training and Research Nsukka, Nigeria
- F&E Off-Grid Suwareh Kunda, Gambia







INTERNATIONALE PV-PROJEKTE

ARGENTINA | BAHAMAS | BOTSWANA | BRAZIL | DENMARK | DOMINICAN REPUBLIC | ENGLAND | GAMBIA | GHANA | COLOMBIA | LATVIA
MADAGASCAR | MAURITIUS | NAMIBIA | NIGERIA | AUSTRIA | PAKISTAN | PERU | POLAND | SWEDEN | ZIMBABWE | SOUTH AFRICA | TOGO
TURKEY | WALES

WORLDWIDE SUPPORT FOR YOUR PV PROJECT

SOLPRIME POWER SYSTEMS GMBH KIEL | HANDEWITT

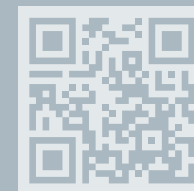
Our **mounting systems** – in use **internationally**.

We have successfully delivered and installed our systems in more than **26 countries**.

Do you have questions about our systems or need support with the **technical planning and design** of your project?

Our team will be happy to advise you and work with you to develop an **economical, customized solution** for your project.

We look forward to your inquiry!



Your Solprime Team!



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